

**Geochemical and Prospecting Report On The  
KENNEDY RIVER GOLD PROJECT  
EVENT #5506710**

Consisting of 25 Adjoining Mineral Tenures:

528876,536731,938952,940318,950287,950288,950537,950546,950549,95  
0550,950552,950554,950561,950566,950891,1020747,1020749,1024717,1  
025204,1025205,1026838,1026840,1026841,1026842,1026843

Alberni Mining Division  
Vancouver Island, British Columbia  
BCGS Map 092F013  
NTS Map 092F03W

Center of Property:

UTM: 10U 5448559E, 324475N  
LAT: 49,9,884N LON 125,24,469W  
LAT: 49.164730N LON -125.407818W

Owners:

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Kamloops, B.C. V2C-1X6  
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Operators:

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Chris Zimmer  
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FMC: 218232

April 27, 2014  
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FMC: 140980

Report Prepared By:

John Bakus  
March 20-October 31, 2014

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## **1.0 INTRODUCTION**

This Report describes a program of investigation, sampling and geochemical analysis of the Kennedy River Vancouver Island gold project that focused on the Tommy K underground workings. Further investigation of additional areas within the property group related to the reported minfile occurrences concerning mineralization, development and accessibility to the property area was also completed.

### **1.10 Objectives**

The primary objective was to determine whether the historical minfile records and workings related to the Kennedy River gold project were accurate, and that the values previously obtained from the ores were accurately reported. Further effort was made to investigate other areas of the property and to document the accessibility of the property for the purpose of formulating future exploration programs.

The Tommy K has a reported production of four tons of ore with a chip sample taken in 1980 grading at 32.7 GT/ AU, 42.8 GT/AG, .063% CU (ARIS ASS RPT 9606) and a grab sample taken in 2009 grading at 66.9 GT/AU 154 GT/AG, 4.19% CU (ARIS ASS RPT 31094)

Previous work on the property by others has indicated that there is potential for additional mineralization related to the numerous known occurrences that occupy the Kennedy River gold project and for the discovery of new occurrences within other areas of the property group. Mineralization in the area may respond to geophysical surveys. The property is of interest for its potential to produce economic precious and base metal mineralization including gold, silver, zinc, copper and such. Historically, multiple occurrences of base metal mineralization on the property and adjoining it have been mined or located in the past.

### **1.20 Mineral Claims**

The Kennedy River mineral property consists of 25 contiguous MGS mineral claims that are all owned 100% by John Bakus and Doug Patterson. (Figures 3 & 10).

### **1.30 Location and Access**

The Kennedy River Property claims are located in the Alberni Mining Division, central Vancouver Island, BC, Canada. The Property is approximately is located 104 miles due East of Nanaimo, 50 KM East of Port Alberni and 25 Km North West of Ucuelet and is centered at UTM Zone 10N, 324498E, 544874N in NTS map sheet 092F03W.

“BC Provincial Highway 4 traverses the centre of the Property, following the eastern bank of the Kennedy River, and providing access to the coastal communities of Ucluelet and Tofino from Port Alberni. The Kennedy River can be traversed locally by small boats during periods of low water levels, but is generally un-navigable with steep banks.

The eastern half of the property is accessible directly from Highway 4, with a series of old overgrown roads which generally follow west-flowing creek valleys providing rough foot trails to the southeast portion of the Property. There are also two new gravel roads in the northeast portion of the Property built to provide limited access to a run-of-river power infrastructure currently under construction along Canoe Creek. These new roads will be gated near the highway once construction is completed.

The western half of the property is accessible via a good gravel road west from the 4-laned section of Highway 4 with a new bridge across the Kennedy River located 2 kilometres south of the Property. The gravel road deteriorates northwards but does lead to the southwest corner of the Property, where it has been washed out. Old overgrown and/or decommissioned roads provide rough foot trails to the southwest portion of the Property. The northwest portion of the Property is not readily accessible by road or trail.

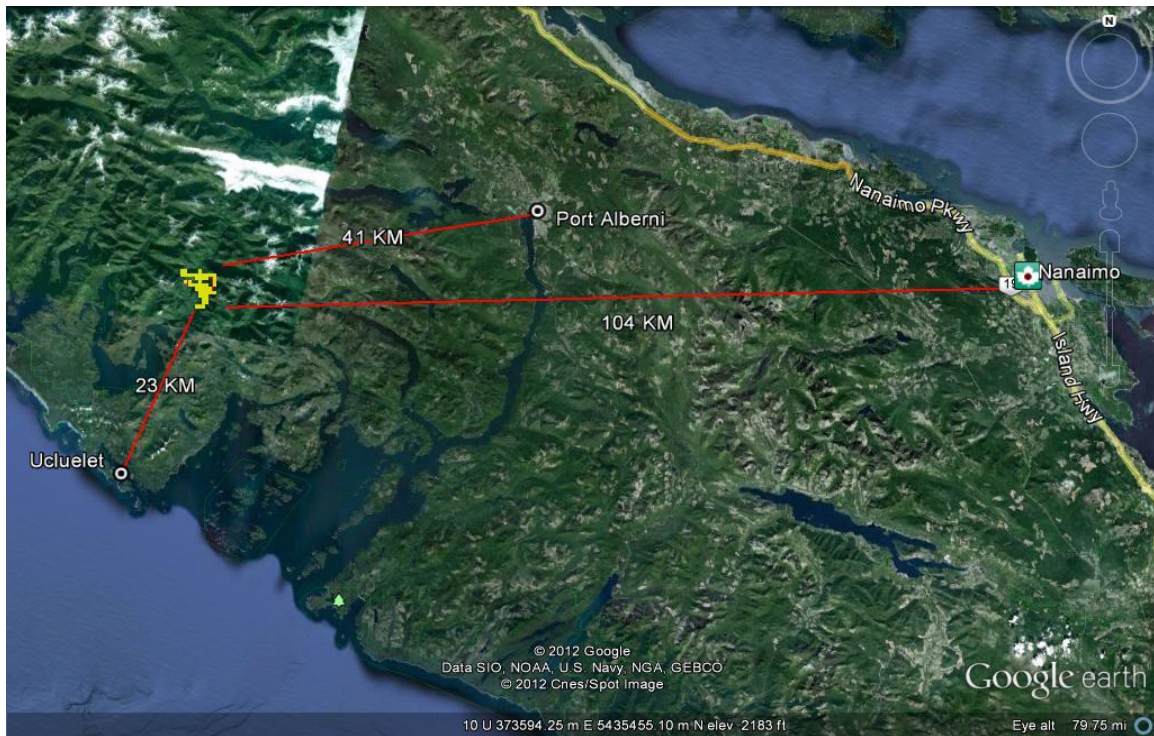
#### **1.40 Physiography**

"The topography of the Kennedy River Property is typically steep and rugged with elevations ranging from 25 metres along the river valley to 1000 metres along the flanks of several surrounding peaks, many of which appear to have been glacial nunataks. The west side of the Kennedy River valley in the area of Property contains swampy meadows separated by rocky knolls. The eastern half of the property is covered by first growth coniferous forest; the western is covered by second growth forest including extensive clear-cut areas, with regeneration consisting of alders, and willows, making access difficult and slow, particularly in the Shack MINFILE area where access roads have been willfully destroyed so as to obliterate almost all evidence of historic exploration work. The area of the Kennedy River Property is temperate rainforest, with heavy rain in the autumn to spring period, warm dry summers, and snow at higher elevations in the winter. Relatively mild coastal climate generally allows year round fieldwork to be carried out." (ARIS 32332 2009 Houle G4G Resources) (Figures 2,3).

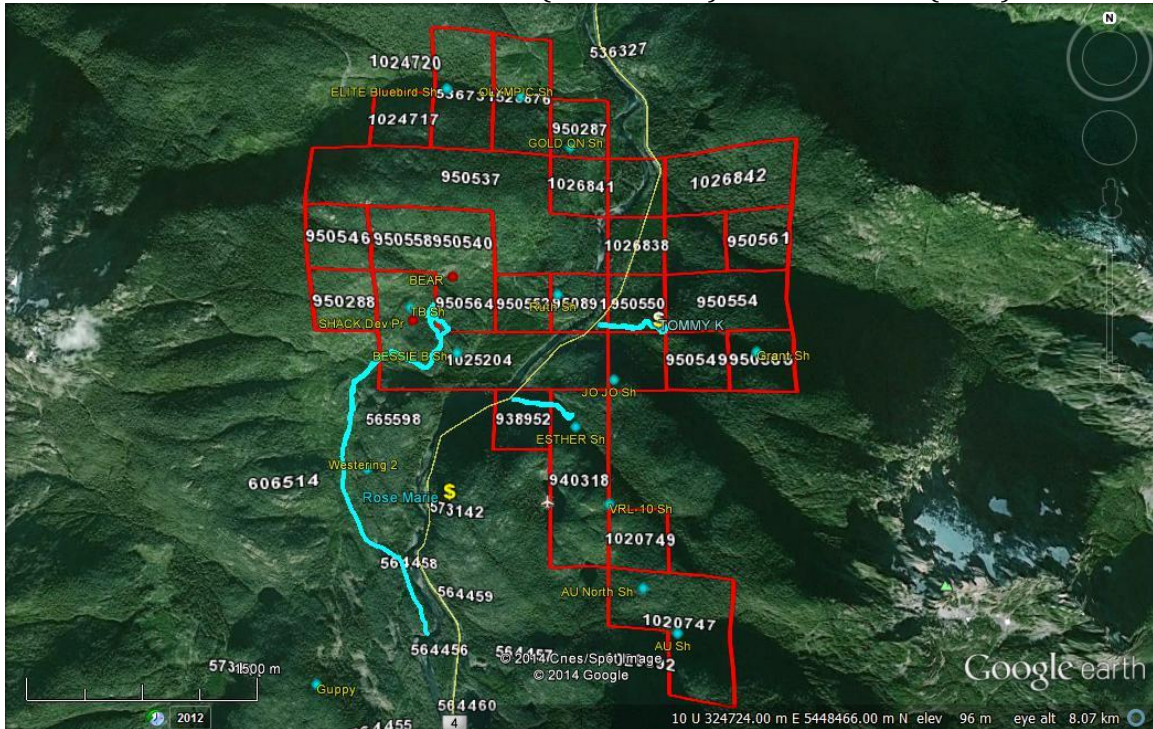
**Figure 1. Kennedy Property B.C. Location Index Map A**  
Scale: 1:10,000,000



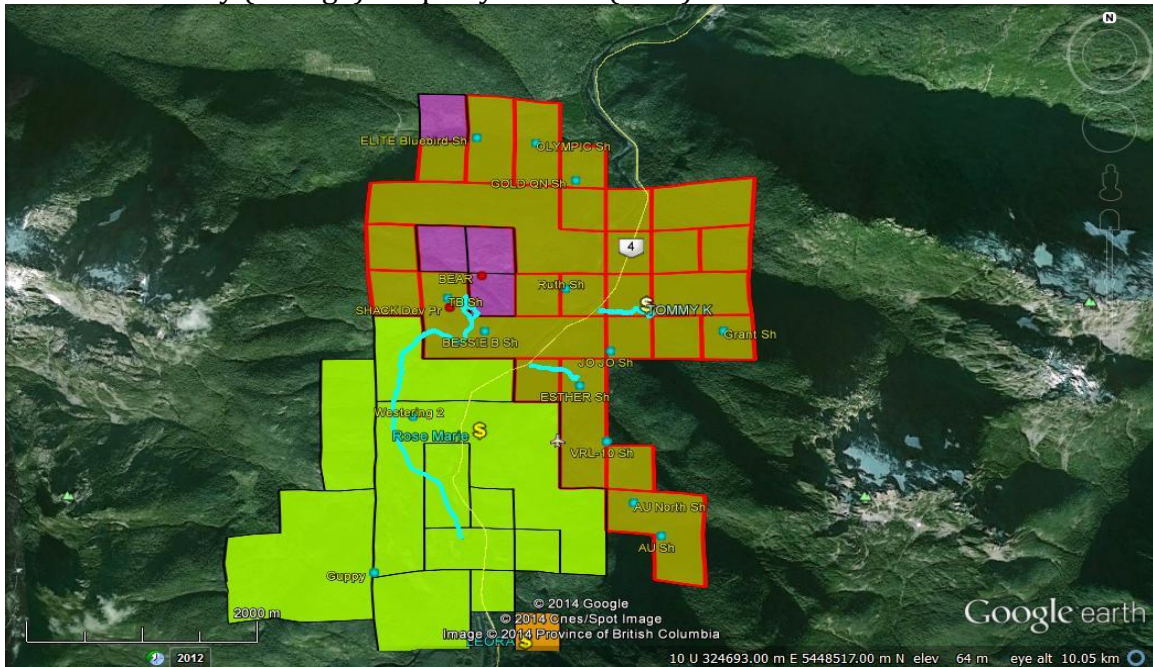
**Figure 2. Kennedy Property B.C. Location Index Map B**  
Scale: Google Eye Altitude 79.75 Miles



**Figure 3. Kennedy Property Location and Road Access Map A**  
 Scale 1500 M Google Eye View 8.07 KM  
 Bakus Patterson Mineral Claims (Red Border) Access Routes (Blue)



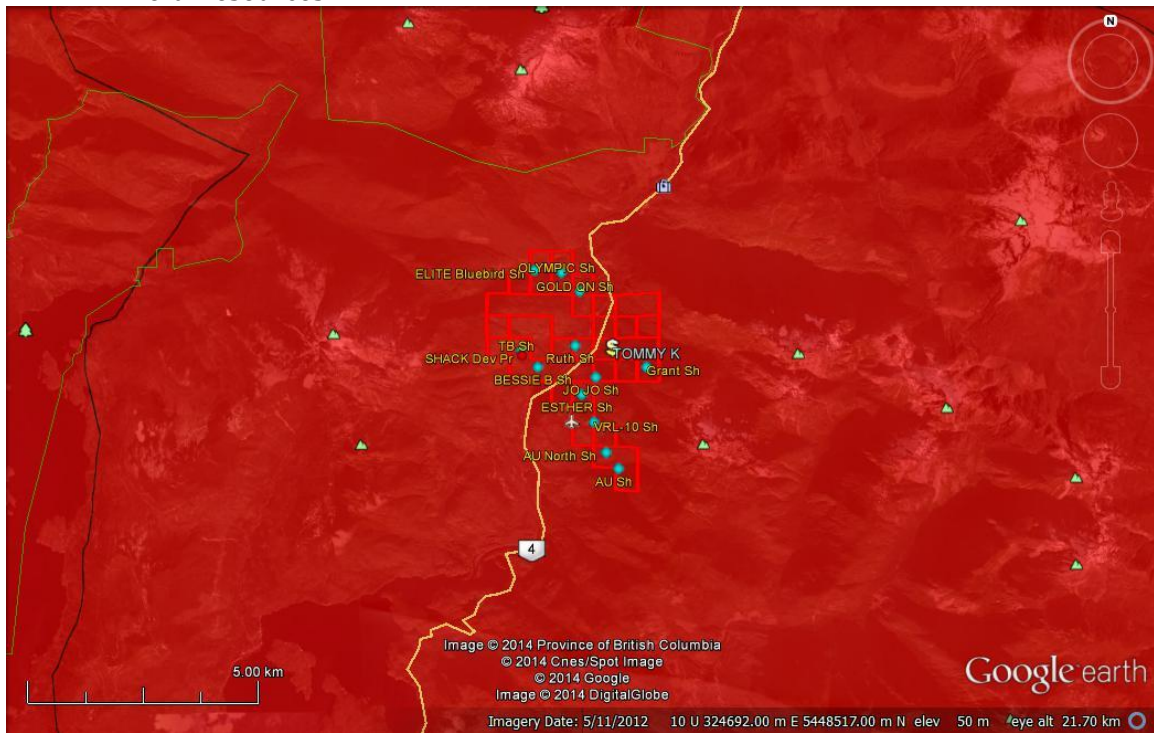
**Figure 4. Kennedy Road Access and Claim Map B**  
 Scale 2.00 KM Google Eye View 10.05 KM  
 Bakus Patterson (Gold) Gonzaga Resources (Green) LaRoche (Purple)  
 Krivensky (Orange) Property Access (Blue)



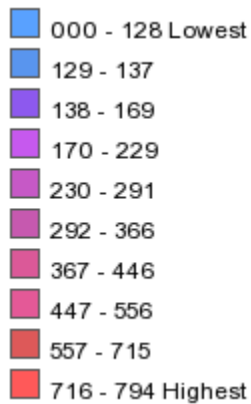
### Figure 5. Kennedy Metallic Mineral Potential Map

Scale 5.00 KM Google EV 21.70 KM  
(Data BC Geographic Data Discovery Service)

A seamless polygon coverage depicting the mineral resource assessment tracts defined during the 1992-1997 Mineral Potential project. The tracts (794) are based on common geologic characteristics and are given a relative rank from 1 to 794 (highest) based on the likelihood of discovering new metallic and/or industrial mineral resources.



### Metallic Mineral Potential by Rank

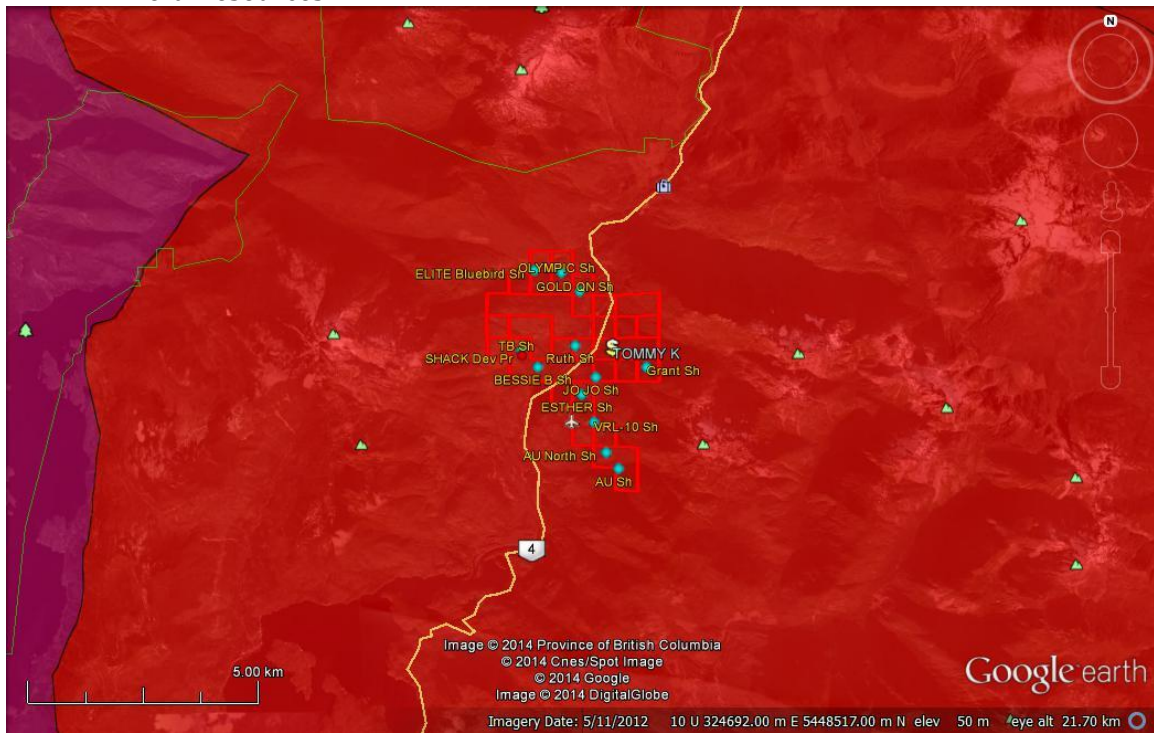




### Figure 6. Kennedy Industrial Mineral Potential Map

Scale 5.00 KM Google EV 21.70 KM  
(Data BC Geographic Data Discovery Service)

A seamless polygon coverage depicting the mineral resource assessment tracts defined during the 1992-1997 Mineral Potential project. The tracts (794) are based on common geologic characteristics and are given a relative rank from 1 to 794 (highest) based on the likelihood of discovering new metallic and/or industrial mineral resources.



### Industrial Mineral Potential by Rank

- 000 - 128 Lowest
- 129 - 137
- 138 - 169
- 170 - 229
- 230 - 291
- 292 - 366
- 367 - 446
- 447 - 556
- 557 - 715
- 716 - 794 Highest

**Figure 7. Kennedy Hillside Relief Map**

Scale 5.00 KM Google EV 21.70 KM

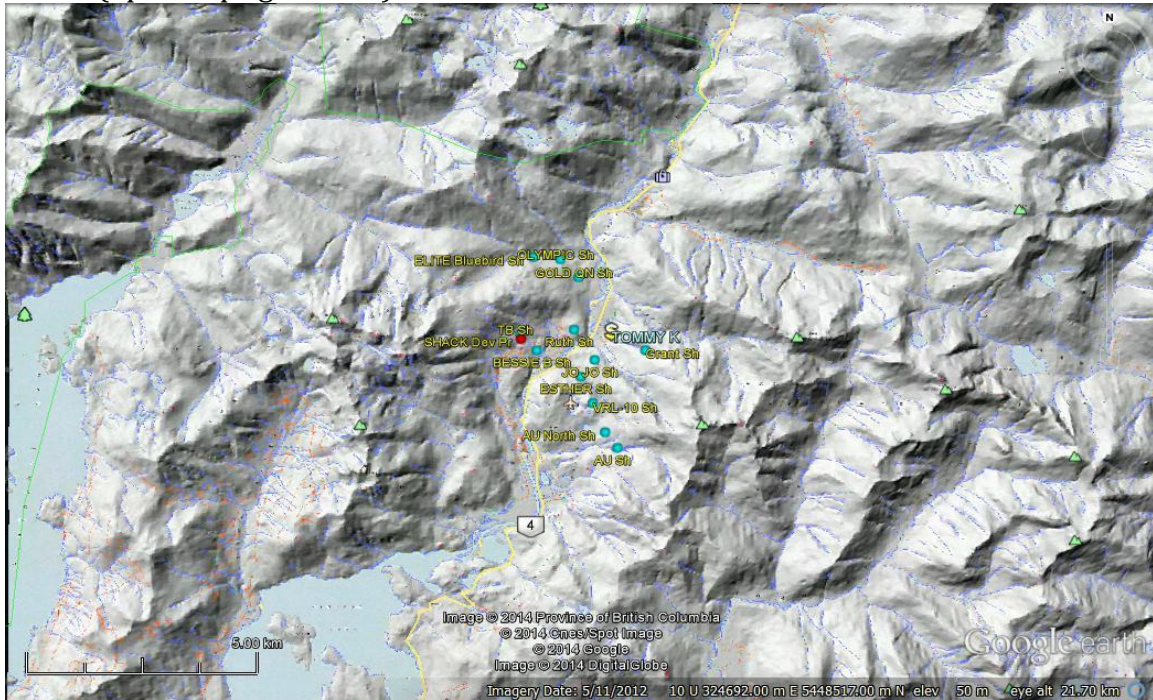
(ilmbwww.gov.bc.ca)

Hill shaded imagery is a simulated cast shadow of sun upon a raised relief map visually representing a digital elevation model (DEM)

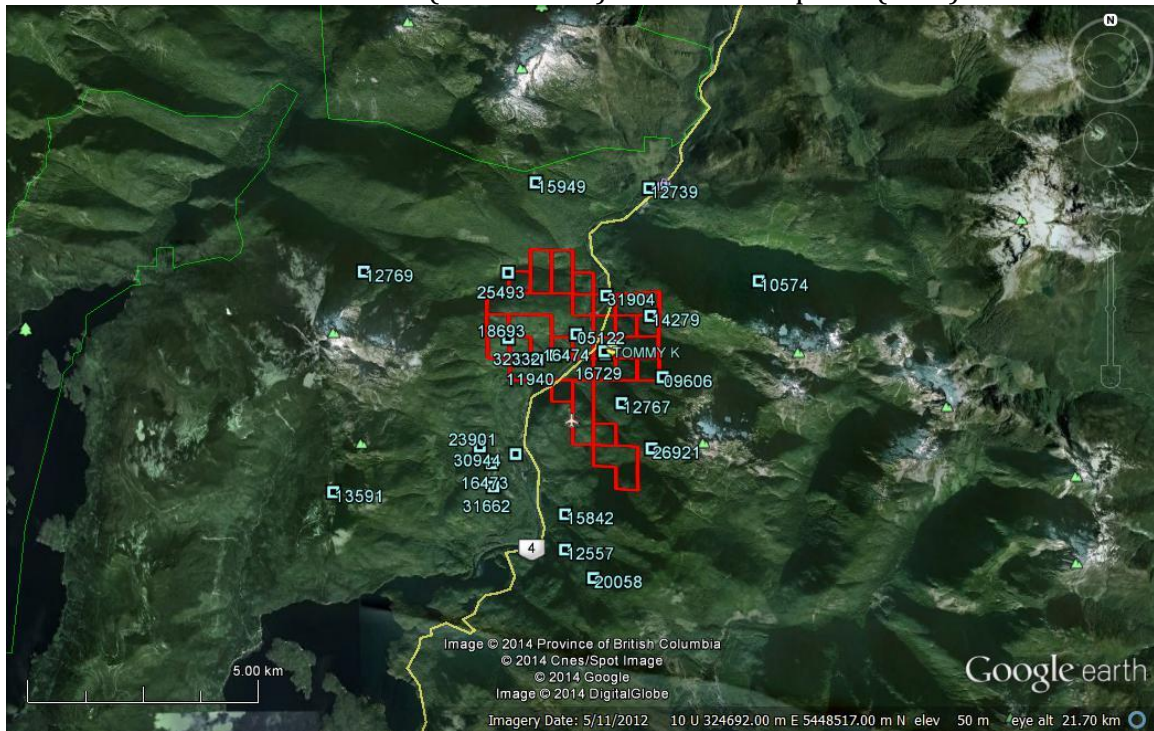


**Figure 8. Kennedy Raster Map Scale 5.00 KM Google EV 21.70 KM**

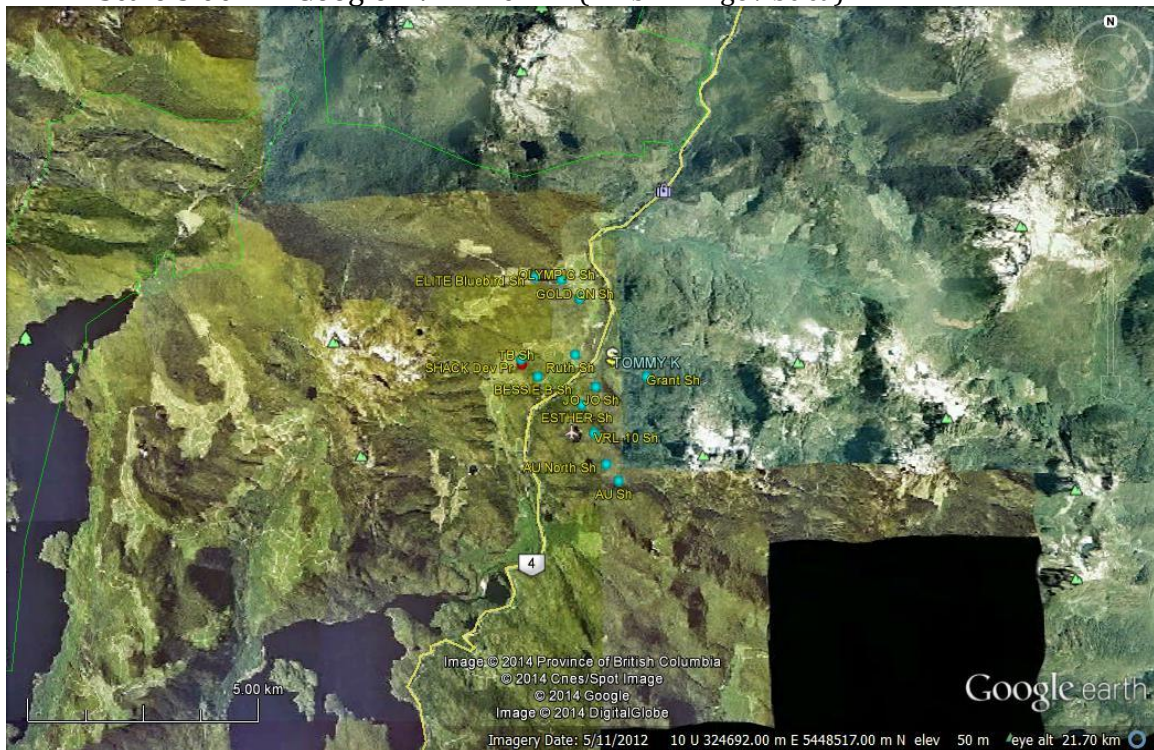
(openmaps.gov.bc.ca)



**Figure 9. Kennedy Area Historic ARIS Reports**  
 Scale 5.00 KM Google EV 21.70 KM  
 Bakus Patterson Claims (Red Border) Area ARIS Reports (Blue)



**Figure 10. Aerial Photo (Orthophoto Mosaic) with Sample Locations**  
 Scale 5.00 KM Google EV 21.70 KM (ilmbwww.gov.bc.ca)



**Figure 11. Kennedy List Mineral Tenures Bakus Patterson  
25 Adjoining Tenures**

Tenure Number	<b>528876</b>	Tenure	<b>950891</b>
Claim Name		Area in Ha	21.12
Area in Ha	42.23		
Tenure Number	<b>536731</b>	Tenure	<b>1020747</b>
Claim Name		Area in Ha	63.40
Area in Ha	42.23		
Tenure Number	<b>938952</b>	Tenure	<b>1020749</b>
Claim Name		Claim	KENNEDY VLR AU CONNECT
Area in Ha	21.13	Area in Ha	21.13
Tenure Number	<b>940318</b>	Tenure	<b>1024717</b>
Claim Name	ESTHER	Claim	
Area in Ha	63.38		
Tenure Number	<b>950287</b>	Area in Ha	21.12
Claim Name	GOLD KING	Tenure	<b>1025204</b>
Area in Ha	21.12	Area in Ha	105.62
Tenure Number	<b>950288</b>	Tenure	<b>1026838</b>
Claim Name	KING	Claim	Kennedy Tommy K North
Area in Ha	21.12	Area in Ha	21.12
Tenure Number	950546		
Claim Name	EXTENSION	Tenure	<b>1026840</b>
Area in Ha	21.12	Claim	Kennedy Reserve 1
Tenure Number	<b>950549</b>	Area in Ha	21.12
Claim Name	B	Tenure	<b>1026841</b>
Area in Ha	21.12	Claim	Kennedy Gold Qn Dome S
Tenure Number	<b>950550</b>	Area in Ha	21.12
Claim Name	IB	Tenure	<b>1026843</b>
Area in Ha	21.12	Claim	Kennedy Tommy K North 2
Tenure Number	<b>950552</b>	Area in Ha	21.12
Claim Name	KENNEDY 1	Tenure	<b>1025205</b>
Area in Ha	21.11	Area in Ha	21.12
Tenure Number	<b>950554</b>	Tenure	<b>950537</b>
Area in Ha	42.24	Area in Ha	126.72
Tenure Number	<b>950561</b>	Tenure	<b>1026842</b>
Area in Ha	21.12	Claim	Kennedy Reserve 2
Tenure Number	<b>950566</b>	Area in Ha	42.24
Claim Name	GRANT AU		
Area in Ha	21.12		

## 1.50 Property History

“The first documented mining activity in the Kennedy River area was in 1899, on the **Rose Marie** occurrence MINFILE 092F032, located immediately south of the Kennedy River Property along the east side of Highway 4. In 1900, 9 tonnes of ore were mined from open cuts of a quartz-sulphide vein on the Rose Marie and shipped to the Crofton smelter, yielding average grades of 100 g/t gold and 214 g/t silver. By 1914, a 133 metre adit had been driven along a quartz-sulphide vein, but no further production was documented from the occurrence.

The first documented exploration activity on the area presently covered by claims of the Kennedy River Property was in 1901, on the **Grant** occurrence MINFILE 092F048, Three gold-bearing quartz veins were discovered and exposed with in a deep open cut and a shallow shaft, and an arrastra was built to generate power from the steep west-flowing creek, but no production was documented. In 1903 on the **Bear** occurrence MINFILE 092F044, gold-bearing quartz veins were discovered and prospected.

In 1914, gold was discovered in multiple gold-bearing quartz stringers hosted by a porphyry body at the **Bessie B.** occurrence MINFILE 092F050, A 15 metre adit and a 5 metre winze were driven along one of the quartz stringers. Also in 1914 on the **Bear** occurrence, a 75 metre adit was driven in a westerly direction along a gold-bearing quartz-sulphide vein hosted by a contact zone between diorite and altered porphyry. In the same year, a silver-copper bearing quartz vein was discovered at the **Ruth** occurrence MINFILE 092F049. On the **Olympic** occurrence MINFILE 092F046, located on the west side of the Kennedy River, a gold-bearing quartz vein was also discovered in 1914.

In 1924, on the **Grant** occurrence, sampling of a 1.2 metre thick quartz-sulphide vein in a 2.4 metre deep trench yielded values of 45 g/t gold, 24 g/t silver and 1.6% copper. Also in 1924, gold-bearing quartz-sulphide veins were discovered on the **Bluebird** occurrence MINFILE 092F051, located immediately north of the Kennedy River Property along the west side of the Kennedy River.

In 1927, on the **Jo Jo** occurrence MINFILE 092F047, quartz-sulphide vein was discovered and exposed in open cuts. Also in 1927, on the **Gold Queen** occurrence, a quartz-sulphide vein was discovered over a strike length of 300 metres, variable in thickness and with gold values obtained occasionally along its length.

In 1933-1935, on the **Tommy** occurrence MINFILE 092F033, several gold-bearing quartz-sulphide veins hosted by a volcanic breccia were discovered and exposed by open cuts. A 50 metre adit was driven to intersect and follow one of these veins, and in 1934 a 4 tonne bulk sample from one of the veins yielded average grades of 7.8 g/t gold, 16 g/t silver and 0.28% copper.

In 1974, owner G. Kinneard completed prospecting on mineral claims covering the **Bear** and **Ruth** occurrences (ARIS 5112).

In 1980-1981, extensive systematic sampling and schematic mapping of blasted open cuts was completed by owner W. Ejtetl on the **Tommy, Grant** and **Jo Jo** occurrences (ARIS 9606).

In 1983, a large group of mineral claims in the Kennedy Lake area was acquired by Rich Lode Gold Corporation, who completed reconnaissance geology, sampling and geochemistry (ARIS 11940). Their claims covered the **Bessie B.**, **Esther** MINFILE 092F099, and **VRL-10** MINFILE 092F480 occurrences. In 1984 at the Esther occurrence, sampling of a 2 cm. quartz-sulphide vein yielded values of up to 101 g/t gold and 36 g/t silver (ARIS 12047).

In 1984, W. Ejtetl expanded his claims around the **Tommy, Grant** and **Jo Jo** occurrences to cover the **VRL-10** occurrence, optioned them to International Phoenix Energy Corporation, who in turn optioned them to Teck Explorations Limited. Teck completed systematic, grid-based geological mapping, soil geochemistry and ground magnetic and electromagnetic surveys, trench mapping and sampling, and stream sediment geochemistry (ARIS 12767). In 1985, Teck completed follow-up trench sampling and prospecting work on the Tommy property (ARIS 14279)

In 1987, Nationwide Gold Mines Corporation acquired mineral claims on the **Olympic, Blue Bird** and **Gold Queen** occurrences, and completed systematic, grid-based geological mapping, soil geochemistry and ground magnetic and electromagnetic surveys. The **Shack** MINFILE 092F045 and **TB** MINFILE 092F099 occurrences were discovered (ARIS 15935). Also in 1987, stream sediment geochemistry was completed on the western portion (west of Kennedy River) of J.S. Lampman's Esther claim covering the **Esther** and **Bessie B.** occurrences (ARIS 16145).

In 1987, Kerr Addison Mines Limited acquired by option a large property position in the Kennedy Lake area from International Coast Minerals Corp., including the Tommy property covering the **Tommy, Grant, Jo Jo** and **VRL-10** occurrences. Kerr Addison completed systematic grid-based geological mapping, trench sampling, and 1656 metres of diamond drilling in 8 drill holes (ARIS 16474, 16279). Although no significant intercepts were achieved, it should be noted that NQ size core was drilled and 1 metre core samples were routinely used, resulting in very high ratios of core sample sizes to assay sub-sample sizes, resulting in extremely non-homogenous samples due to the very narrow veins in the drill core, and therefore possibly understated gold values.

In 1988-89, Golden Spinnaker Minerals Corporation and Nationwide Gold Mines Corporation conducted a joint exploration program on the **Shack** occurrence which straddled the boundary between their respective mineral claims. Systematic and detailed geological mapping, ground geophysical surveys (magnetics, electromagnetics, and induced polarization), 908 metres of diamond drilling in 17 holes, and 282 metres of rotary hammer drilling in 2 holes were completed (ARIS 18693). Several significant intercepts were achieved, including one diamond drill hole which yielded 41 g/t gold, 102 g/t silver and 1.27% copper over 0.59 metres. A mineral resource was estimated for the Shack Vein, based on an arithmetic average of vein samples from surface trenches and drill core, but it should be noted that the resource estimate does not meet modern NI-43-101 and CIM guidelines.”

(ARIS 32332 2009 Houle G4G Resources)

In 2009 G4G Resources completed a Prospecting, Geology and Geochemistry Program and in 2010 completed a Remote Sensing Analyses on the G4G Property.

## **2.00 GEOLOGY and MINERALIZATION**

### **2.10 Geology**

#### **Elite Area:**

Karmutsen Formation volcanics of the Upper Triassic Vancouver Group are intruded by the Early to Middle Jurassic Island Intrusions consisting of granodiorite to quartz diorite. The Karmutsen rocks consist of andesitic to basaltic flows, tuffs and volcanoclastics. West-northwest trending fault shear zones of Tertiary age cut the rocks.

#### **Tommy K Area:**

Upper Triassic andesites and andesitic breccia and tuffs of the Karmutsen Formation (Vancouver Group) are intruded by granodiorite of the Early to Middle Jurassic Island Intrusions and Tertiary dacitic dykes. The rocks are cut by northwest-trending faults which typically show intense shearing and local sericitization, silicification and pyritization over widths of 0.5 to 2 metres.

#### **AU Area:**

The area is underlain by Upper Triassic Vancouver Group, Karmutsen Formation volcanics which are intruded by and in fault contact with granodiorite of the Early to Middle Jurassic Island Plutonic Suite. The volcanics are massive, fine grained and greenish. They contain zones of up to 8 per cent disseminated pyrite and pyrrhotite near the granodiorite intrusion, where they have been hornfelsed to a flinty, hard, biotitic, dark grey rock. Andesite dikes, mainly porphyritic containing feldspar phenocrysts, are commonly observed within the granodiorite. The dikes are thought to cut the volcanics as well but have not been recognized because of their similar appearance.

### **EOCENE TO OLIGOCENE**

#### ***Mt. Washington Plutonic Suite***

EOIM quartz dioritic intrusive rocks

### **EARLY JURASSIC TO MIDDLE JURASSIC**

#### ***Island Plutonic Suite***

EMJlgd granodioritic intrusive rocks

### **LOWER JURASSIC**

#### ***Bonanza Group***

LJBca calc-alkaline volcanic rocks

### **MIDDLE TO UPPER TRIASSIC**

#### ***Vancouver Group***

*Karmutsen Formation*

uTrVK pillow basalt and breccia

muTrVs undivided sedimentary rocks





## 2.20 Mineralization

### **TOMMY K** Developed Prospect: Minfile 092F 099

The Adit vein strikes 55 to 75 degrees for 70 metres, dips north and is up to 0.8 metres thick. A 15 centimeter sample of a vein (possibly the old Hidden Treasure vein), about 150 metres east of the adit, assayed **66.9 grams** per tonne gold, 154 grams per tonne silver and 4.19 per cent copper (Assessment Report 9606). A 5-metre sample from a nearby trench assayed **4.2 grams** per tonne gold (Assessment Report 12767). The deposit was worked in 1934 and produced 31 grams of gold, 62 grams of silver and 11 kilograms of copper from a total of 4 tonnes mined (Mineral Policy data).

### **Shack** Developed Prospect: Minfile 092F 045

Diamond drill intersects of the vein from 1988 contain 2 to 3 per cent pyrite, pyrrhotite, chalcopyrite and sphalerite. The wall- rocks are silicified, kaolinized and pyritized. The eight diamond drill holes that tested the vein gave a weighted average of **15.57 grams** per tonne gold and 89.14 grams per tonne silver across an estimated true width of 44 centimeters (Assessment Report 18693).

A preliminary ore reserve estimate for the Shack vein has been calculated based on surface sampling and diamond drilling. **The deposit contains from 37,920 to 42,015 metric tonnes of probable or possible ore grading from 19.20 to 24.03 grams per tonne gold** (Assessment Report 18693). The vein has been tested to a depth of 122 metres where it remains open. It also remains open along strike at both ends.

Probable and possible reserves are estimated at **160,000 tonnes grading 17.4 grams per tonne gold**. This includes reserves from the adjacent Bear vein ((092F 044) owned by Francis LaRoche) and Elite vein ((092F 051) John Bakus) occurrences (George Cross News Letter No.38, 1989).

### **Elite Bluebird** Showing: Minfile 092F 051

Quartz veins, mineralized with chalcopyrite, pyrite and arsenopyrite, occur in a shear zone which is up to 12 metres wide. The shear zone lies within the volcanics. A grab sample of a mineralized vein of the Blue Bird showings assayed 2.06 grams per tonne gold, 34.3 grams per tonne silver and 0.7 per cent copper

The Elite vein is reported to occur at this location striking 060 degrees and dipping 60 degrees to the northeast. The 35 to 75 centimetre wide quartz-sulphide vein has been traced semi-continuously for 50 metres. The Elite vein appears to occur in a hanging wall splay of the Julius Creek shear zone. Massive to weakly brecciated andesitic volcanics

host the vein. Pervasive chlorite with lesser silicification, limonite and bleaching form a halo of 40 centimetres adjacent to the vein. Some pyrite was noted within the halo. Mineralization, occurring primarily as pods, seams and fracture coatings, consists predominantly of pyrite and pyrrhotite. Arsenopyrite and sphalerite are also observed. Of 10 samples taken the best assay obtained was 53.69 grams per tonne gold and 80.91 grams per tonne silver across 60 centimetres. The lowest assay was 2.95 grams per tonne gold and 12.34 grams per tonne silver.

In 1986, K. Gourley staked the Blaster claim and completed a prospecting program and a geochemical silt survey the following year. From 1987 to 1988, Nationwide Gold Mines and Golden Spinnaker Minerals optioned the property and completed programs of trenching, VLF-EM surveys and diamond drilling. In 1988, bulk sampling and fourteen diamond drill holes, totalling 819 metres, were completed on the Elite 1 vein and nearby Rachel vein. In 1989, bulk sampling of surface exposures at the Elite 1 vein returned an average of 68.2 grams per tonne gold and diamond drilling returned up to 9.4 grams per tonne gold over 0.32 metre. In 1991, Kancana Ventures optioned the property. The area has been explored in conjunction with the nearby Olympic occurrence (MINFILE 092F 046). In 1995, sampling of the Elite veins assayed up to 11 grams per tonne gold, 28.5 grams per tonne silver and 37 parts per million tellurium over 0.10 metre (Assessment Report 25493).

#### **Olympic Showing: Minfile 092F 046**

Two showings occur along the Julius Creek shear zone. The Olympic showing, a 5 to 40 centimetre wide quartz vein striking 107 degrees and dipping 75 degrees north, contains pyrite and chalcopyrite. Wallrock alteration of the Karmutsen andesites consists of chlorite, limonite, sericite and silicification. An 8 centimetre chip sample assayed 3.35 grams per tonne gold and 49.37 grams per tonne silver (Assessment Report 15935).

The Olympic and Titanic veins were originally discovered in 1913. In 1986, K. Gourley staked the Blaster claim and completed a prospecting program and a geochemical silt survey the following year. From 1987 to 1988, Nationwide Gold Mines and Golden Spinnaker Minerals optioned the property and completed programs of trenching, VLF-EM surveys and diamond drilling. In 1988, bulk sampling and fourteen diamond drill holes, totalling 819 metres, were completed on the Elite 1 vein and nearby Rachel vein. In 1991, Kancana Ventures optioned the property. A lone grab sample, from the Kristen II vein, returned values of 15.7 grams per tonne gold and 18.8 grams per tonne silver (Assessment Report 25493). From 1993 to 1995, the property was returned to and later prospected by K. Gourley. The area has been explored in conjunction with the nearby Blue Bird occurrence (MINFILE 092F 051).

**AU NORTH** Showing: Minfile 092F 028

Three east-west trending quartz veins dipping at about 65 degrees occur in granodiorite. They contain massive pyrite and pyrrhotite, and traces of sphalerite and chalcopyrite. The best samples were taken from the northern-most vein where it is exposed in a small creek bed one sample taken across 33 centimetres assayed **15.84 grams** per tonne gold and 19.89 grams per tonne silver (Assessment Report 12725).

**AU** Showing: Minfile 092F 121

Typically, the mineralized zone contains clay gouge on both sides of a highly fractured quartz vein that is up to 1 metre wide. An alteration halo, from 3 to 10 metres, surrounds the vein and consists of a hard, grey, mottled, pyritized and fine-grained mass, interpreted as a being a silicified shear breccia. Traces of sericite were also observed. The average width of the vein is from 0.3 to 0.4 metres with assays up to **38.57 grams** per tonne gold. A drill hole section contained **8.64 grams** per tonne gold over 0.7 metres (Assessment Report 12725).

**GOLD QUEEN** Showing: Minfile 092F 052

A 300-metre shear zone contains a 1-metre wide quartz vein with pyrite within the volcanics. A value of **48 grams per tonne gold** was reported (Assessment Report 15935).

**RUTH** Showing: Minfile 092F 049

A 0.5 metre wide quartz vein, exposed for 30 metres on surface, contains pyrite and chalcopyrite. The 55 degree striking, 75 degree southeast dipping vein occurs in porphyry. A small diabase dyke accompanies the vein on the hangingwall and limestone outcrops within 3 metres. A sample assayed 1.9 per cent copper, 96 grams per tonne silver and **trace gold** (Minister of Mines Annual Report 1913).

**JO JO** Showing: Minfile 092F 047

Copper Lead Zinc a quartz vein, about 60 centimetres wide, strikes 040 degrees through volcanics, sediments and granodiorite; one report gives a 065 degree strike. The quartz is mineralized with pyrrhotite, pyrite, and lesser amounts of chalcopyrite, sphalerite, and traces of galena. The vein has been traced on surface for "several hundred feet".

**ESTHER** Showing: Minfile 092F 099

A continuous 1 metre sample of volcanic rock, containing a 0.6 metre wide quartz vein, assayed **1.30 grams** per tonne gold and 4.46 grams per tonne silver (Assessment Report 11940) a sample of a fracture containing vuggy quartz with minor chalcopyrite and galena contained **101.49 grams** per tonne gold and 36.34 grams per tonne silver

**VRL-10** Showing: Minfile 092F 140

An 80 centimetre wide quartz vein, carrying pyrrhotite, strikes 100 degrees and dips 90 degrees within granodiorite. Float from the vein contained pyrrhotite and lesser amounts of pyrite, sphalerite and chalcopyrite. A sample of the float contained 61.03 grams per tonne silver, **1.03 grams** per tonne gold, 6.80 per cent zinc, 0.58 per cent copper and 0.1 per cent lead (Assessment Report 11940).

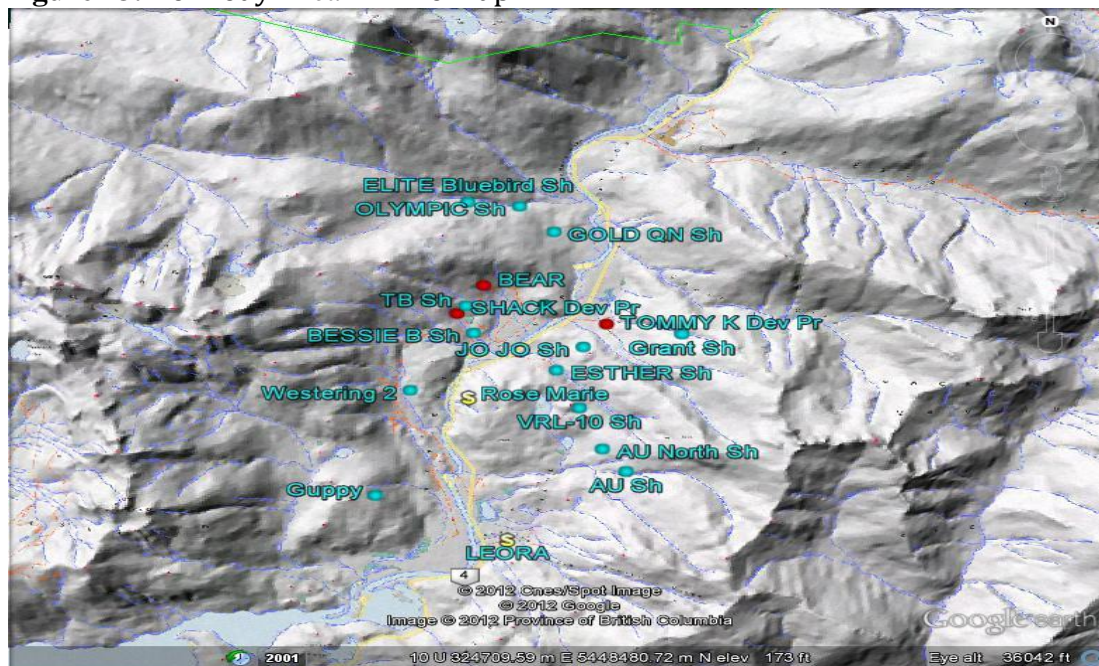
**BESSIE B** Showing: Minfile 092F 050

Steep northwest dipping quartz veins, with **gold values**

Kennedy Area Minfiles Shown (all Occurrences):

Former Producers: Rose Marie 092F 099, Leora 092F 031 Prospects: Shack 092F 045, Tommy K 092F 099, Bear 092F 033 Showings: Gold Queen 092F 0352, Bessie B 092F 050, Au 092F 121, Au North 092F 028, VRL-10 092F 140, JO JO 092F 047, Esther 092F 099, Ruth 092F 049, Grant 092F 048, TB 092F 096, Elite Bluebird 092F 051, Olympic 092F 046, Westering 2 092F 448, Guppy 092F 392

**Figure 13.** Kennedy Area Minfile Map



### **3.00 WORK PROGRAM IN 2013**

#### **3.10 Introduction**

The 2014 Kennedy geochemical and prospecting program field work was performed by Chris Zimmer of Nanaimo, B.C British Columbia, with over ten years of field experience and assisted by Jeff Davis of Tofino B.C. March 22-25 2014 and Bill McKinney of Richmond B.C. with over six years of field experience on April 27 2014 Mr. Zimmer prepped, sorted and compiled all technical data and information relating to his field trips March 21 and March 26 2014. Mr. McKinney prepped, sorted and compiled all technical data and information relating to his field trip April 26 and May 05 2014. Mr. Bakus provided research, data collation, mapping and produced this report between March 20 through to October 2014.

The work program discussed in this report in part consists of acquiring and assaying six samples (TKV-01 to TKV-06) acquired at 10 meter intervals from the Tommy K vein, along with eight samples (TKT-01 to 08) from the Tommy K dump. (Figure 6). These samples were prepared and analyzed by Aqua Regia (14 elements) and ICP-MS (31 elements) at Acme Labs in Vancouver, B.C. Four samples were than fire assayed for AU by way of Lead Collection Fire - Assay Fusion - AAS Finish (TKT-01, TKV-04,05,06) and an additional four samples were than fire assayed for AU by way of Lead collection-Fire Assay Fusion - Grav Finish (TKT-02, TKV-01,02,03)

The 14 elements analyzed by Aqua Regia were Mo, Cu, Pb, Zn, Ni, As, Cd, Sb, Bi, Ag, Au, Hg, Tl and Se.

The 17 elements analyzed by ICP-MS were Ba, Be, Co, Cs, Ga, Hf, Nb, Rb, Sn, Sr, Ta, Th, U, V, W, Zr, Y, La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb and Lu.

An additional four float samples (SK-01-04) were taken from near the Shack occurrence. Seven samples were taken near the Ester showing (TKS-01-04) and eight additional samples from the Tommy K area (KND-01-14-08) These additional samples may be assayed at a further date.

Weather was a major issue with heavy rain occurring which resulted in difficult conditions and limited access to certain areas of the property. (Shack area) The present owner conducted this program so as to reaffirm and acquire additional data regarding the gold content of the Kennedy river project in general, and in particular the Tommy K vein and associated mine dumps in order to evaluate whether the gold contents would be high enough to make a decision to further evaluate the deposit with the assistance of a qualified geologist.

### **3.20 Methodology Assessment and MinFile Review**

Prior to the commencement of field work; an investigation of information in the public domain relating to previous work (ARIS Reports) and mineral occurrences (Minfile Reports) within the property area was completed by reviewing the BC Department of Energy Mines and Petroleum Resources web site data. From this data, the 2014 Kenney prospecting plan was developed. It was determined that the Tommy K area would be of particular interest during the 2014 work program and as such was investigated to verify Minfile records of workings and inventories. In doing so, selected samples gathered from the Tommy K vein and dump stockpile were assayed to confirm previous records.

A vehicle was used to get access as far as possible, and then hiking on foot with equipment carried out where needed. Roads and trails were mapped by GPS with notes on conditions and hazards. Any other development work was noted and mapped with rock samples taken as appropriate. Notes were taken on terrain, watercourses, overburden etc with future prospecting, geological mapping, geochemical and geophysical work in mind. Orange flagging and marking of sample sites occurred and multiple photos were taken of samples and areas of interest. GPS coordinates were taken, and all samples were recorded logged and mapped. Mapping of sample locations was done by way of Google, IMAP and Exploration assistant, and all data was compiled and sorted by use of Excel, Word and .pdf formats. This data formed the template for this report. Sample types include in dump and stockpile samples, float boulders, points of interest (sample), and additional points of interest.

#### **Equipment List**

Vehicles, chain saws, field tools , GPS, Garmin Base-camp software, laptop, compass, clinometers, VHF radios, Spot GPS emergency locator, bear spray, air horn, bags, tags, assorted markers, Etc.

### 3.30 2014 Work Sample Spreadsheet

Kennedy 2014  
Event 5506710

Sample	X 11U	Y 11U	Lat	Lon	Notes
SK-01-14	323548	5448925	49.167751	-125.42069	Shack Area 1 Float
SK-01-14	323531	5448916	49.167663	125.420912	Shack Area 2 Float
SK-01-14	323515	5448907	49.167581	125.421131	Shack Area 3 Float
SK-01-14	323558	5448989	49.168335	-125.42058	Shack Area 4 Float
TKS-01-14	324636	5448083	49.160493	125.405411	Float from qtz veins multiple veins exposed by creek
TKS-02-14	324634	5448086	49.160522	125.405438	Float from qtz veins multiple veins exposed by creek
TKS-03-14	324635	5448082	49.160485	125.405421	Float from qtz veins multiple veins exposed by creek
TKS-04-14	324636	5448079	49.160457	125.405398	Float from qtz veins multiple veins exposed by creek
TKS-05-14	324640	5448088	49.160541	125.405354	Chip from qtz Vein exposed by creek
TKS-06-14	324640	5448088	49.160541	125.405354	Chip from qtz Vein exposed by creek
TKS-07-14	324640	5448088	49.160541	125.405354	Chip from qtz Vein exposed by creek
POI					
SKP-01-14	323426	5446349	49.144564	125.421229	South Bridge (West) to Shack Area
SKP-02-14	323204	5446994	49.150295	-125.42455	Hairpin Rd Must head South
SKP-03-14	323599	5448725	49.165969	125.419899	Shack Area Path/Old Road Fork going NE and NW
TKP-01-14	324846	5448782	49.166834	125.402831	Pacific Rim Highway Bridge by Tommy K Access (NW Side)
TKP-02-14	324873	5448810	49.167092	125.402479	Access Road to Tommy K Adit (East)
TKPS-01-14	324147	5448215	49.161539	125.412157	Access Road East South Of Tommy K
TKPS-02-14	324638	5448088	49.160543	-125.40538	Creek Running NW to SE lots of qtz float



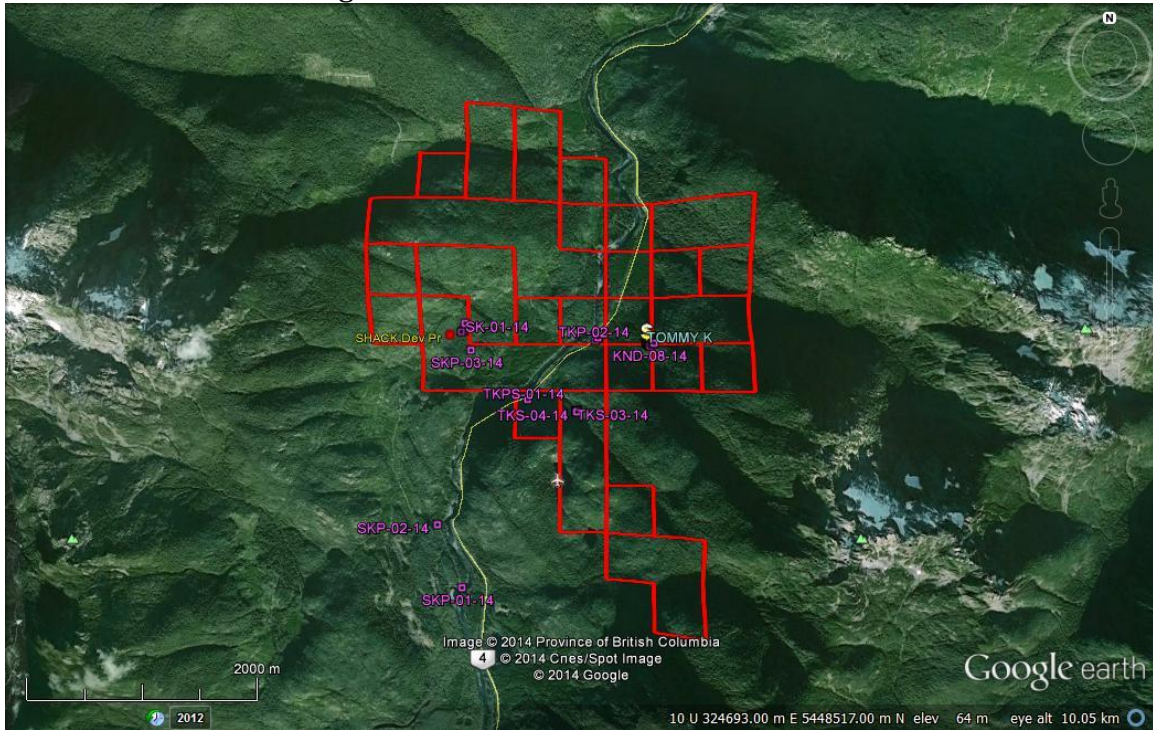
KND-01-14	325349	5448761	49.166794	125.3959317	-	Quartz Vein some sulphides and oxidation
KND-02-14	325363	5448750	49.166692	-125.395721		Bedrock exposure Outcrop
KND-03-14	325382	5448743	49.16664	-125.395462		Bedrock exposure Outcrop
KND-04-14	325386	5448709	49.16633	-125.395394		Bedrock exposure Outcrop
KND-05-14	325404	5448738	49.166599	-125.39517		Bedrock exposure Outcrop
KND-06-14	325410	5448737	49.166589	-125.395077		Bedrock exposure Outcrop
KND-07-14	325420	5448732	49.16655	-125.394944		Bedrock exposure Outcrop
KND-08-14	325428	5448736	49.166585	-125.39484		Bedrock exposure Outcrop

#### **Assayed Samples**

TKV-01-14	325393	5448793	49.167089	125.395342	-	Tommy K Adit Chip 10 M into Tunnel TK-Vein-01
TKV-02-14	325393	5448793	49.167089	125.395342	-	Tommy K Adit Chip 20 M into Tunnel TK-Vein-02
TKV-03-14	325393	5448793	49.167089	125.395342	-	Tommy K Adit Chip 30 M into Tunnel TK-Vein-03
TKV-04-14	325393	5448793	49.167089	125.395342	-	Tommy K Adit Chip 40 M into Tunnel TK-Vein-04
TKV-05-14	325393	5448793	49.167089	125.395342	-	Tommy K Adit Chip 50 M into Tunnel TK-Vein-05
TKV-06-14	325393	5448793	49.167089	125.395342	-	Tommy K Adit Chip 60 M into Tunnel TK-Vein-01
TKT-01-14	325377	5448718	49.166414	125.395526	-	Tailing Pile 2lb TK-01
TKT-02-14	325376	5448725	49.166478	125.395551	-	Tailing Pile 2lb TK- 02
TKT-03-14	325374	5448730	49.166523	125.395569	-	Tailing Pile 2lb TK- 03
TKT-04-14	325369	5448729	49.166504	125.395642	-	Tailing Pile 2lb TK- 04
TKT-05-14	325361	5448731	49.16652	125.395742	-	Tailing Pile 2lb TK- 05
TKT-06-14	325356	5448746	49.166655	125.395819	-	Tailing Pile 2lb TK-06
TKT-07-14	325356	5448749	49.166684	-125.39583		Tailing Pile 2lb TK- 07
TKT-08-14	325357	5448752	49.166712	-125.39581		Tailing Pile 2lb TK- 08

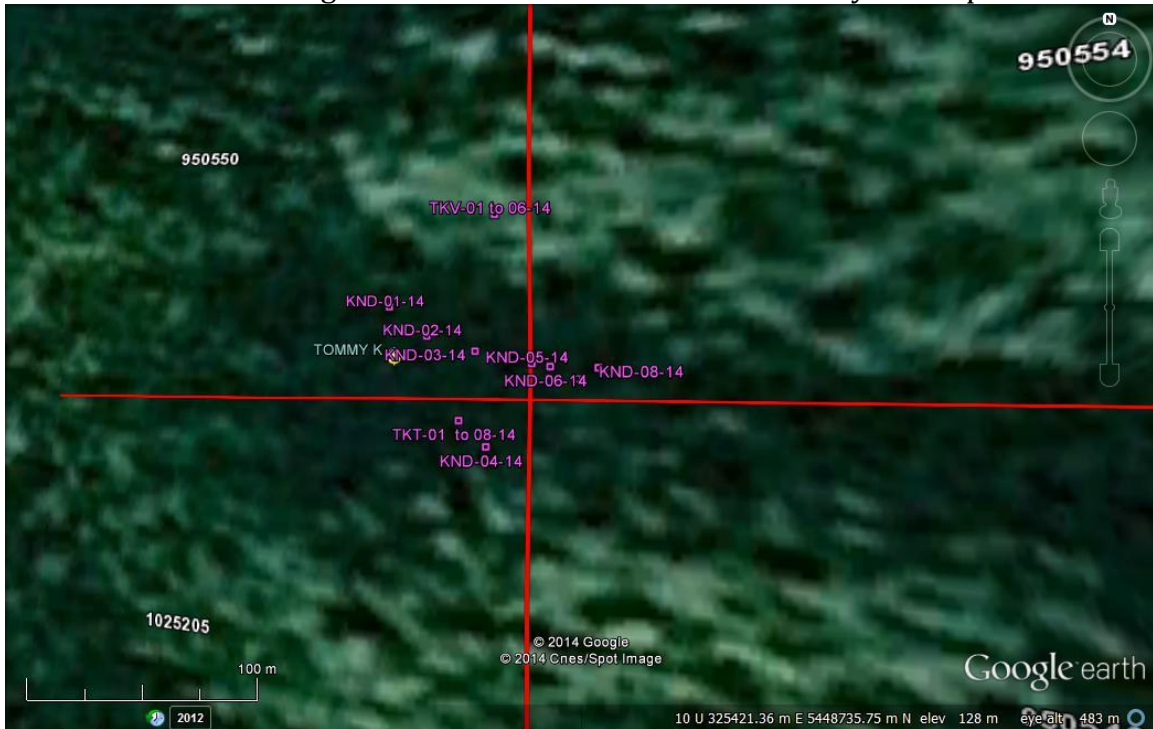
**Figure 13. Kennedy Tommy K Sample Assay/Results Maps**

**13.1 Google Map Kennedy Properties including the Tommy K  
Scale 2000 M Google EV 10.05 KM**

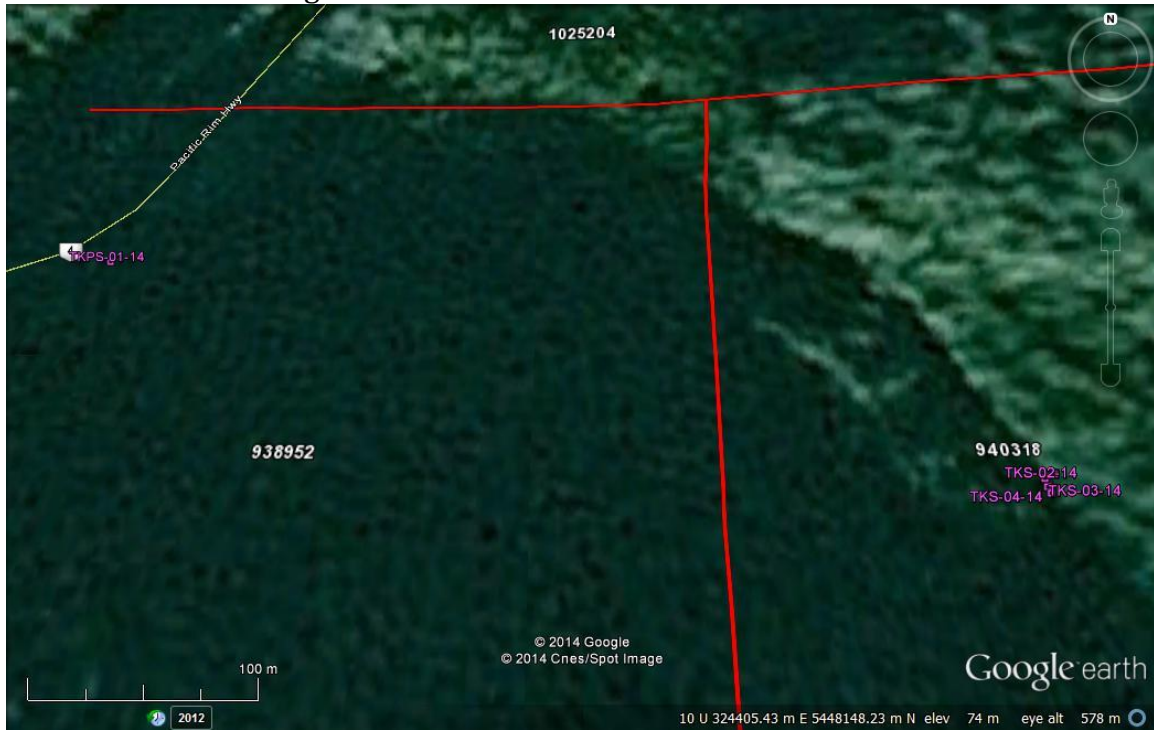


**13.2 Google Map Work 950550 950554 1025205  
Scale 100 M Google EV 483M**

Assayed Sample Locations



13.3 Google Map Work Tommy K 940318  
Scale 25 M Google EV 209 M

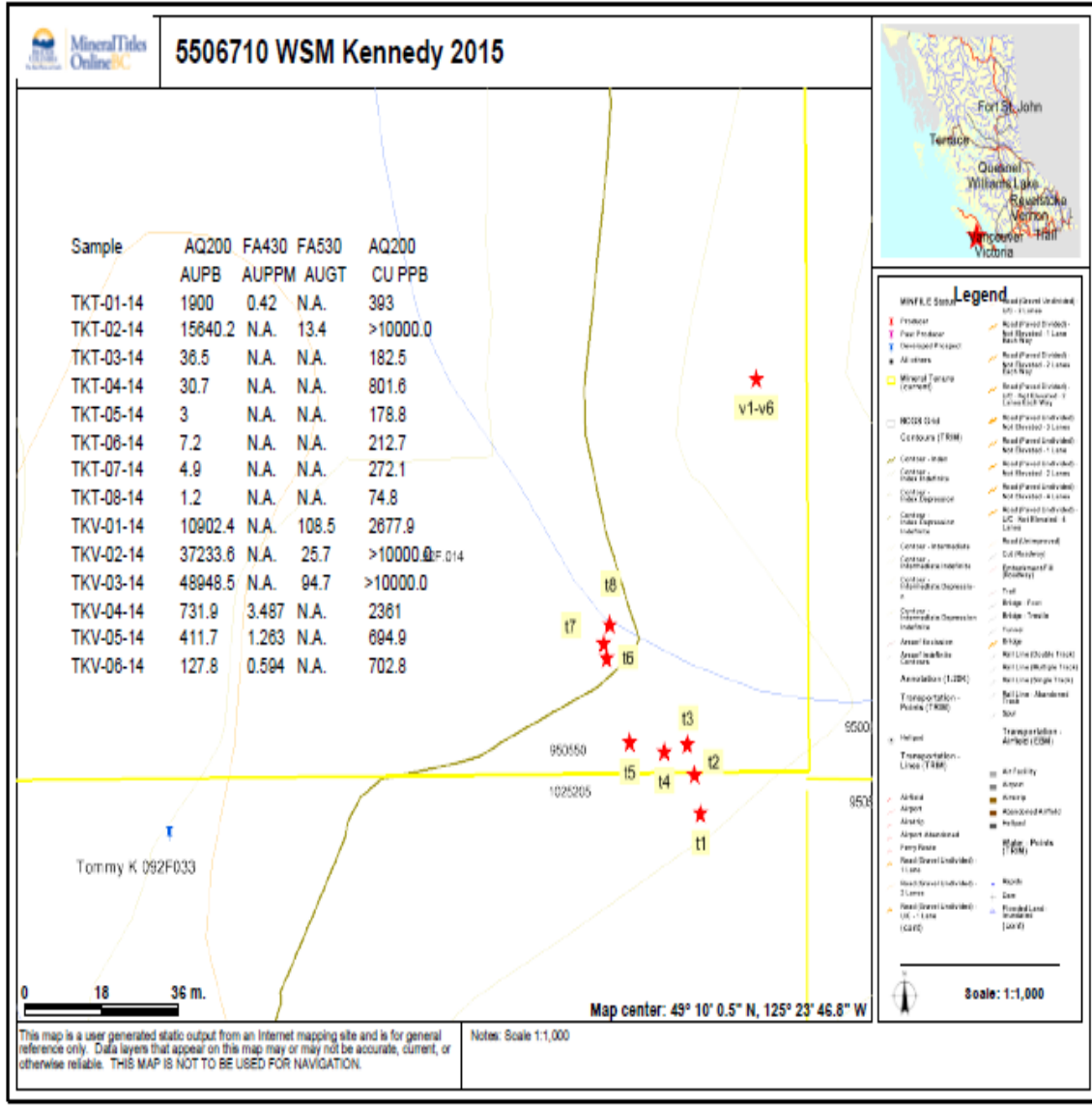


13.2 Google Map Work 1025204  
Scale 100 M Google EV 593 M



### 13.4 Tommy K 950550 Sample Assay/Results Map

Scale 1:1,000 (See Attached) 5506710 WSM Kennedy 2014 1 to 1000 .pdf



## 4.00 TECHNICAL WORK REPORT FORM STATEMENT OF COSTS



### REPORT OF PHYSICAL EXPLORATION AND DEVELOPMENT Section 15 - Mineral Tenure Act Regulation

<b>1. Event number(s):</b> 5506710		<b>2. Tenure number(s):</b> 528876,536731,938952,940318,950287,950288,950537,950546,950549,950550,950552,950554,950561,950566,950891,1020747,1020749,1024717,1025204,1025205,1026838,1026840,1026841,1026842,1026843 25 Tenures		<b>3. Type of Claim:</b> <input checked="" type="checkbox"/> Mineral <input type="checkbox"/> Placer	
<b>4. Recorded holder</b>					
Name: Doug Patterson FMC 120793 and John Bakus FMC 223385			Address: 3926 Woodhus Road Campbell River, British Columbia V9H-1B3 #3, 1572 Lorne Street East Kamloops, British Columbia V2C-1X6		
Phone: 250-723-7519 250-377-8918		Email: rmat@uniserve.com irsol@telus.net			
<b>5. Operator</b>					
Name: Christopher Zimmer FMC 218232 and Bill McKinney FMC 140980			Address: 1411 White Street Nanaimo, British Columbia V9S-1J1 11751 Shell Road Richmond, British Columbia V7A-3W7		
Phone: 250-668-5559 250-679-8979		Email: zimwiz69@hotmail.com, billdozer111@gmail.com			
<b>6 Report Author</b>					
Name: John Bakus FMC 223385			Address: #3, 1572 Lorne Street East Kamloops, British Columbia V2C-1X6		
Phone: 250-377-8918		Email: irsol@telus.net			
<b>7. Qualifications/experience of workers:</b>					
Chris Zimmer 10 years prospecting and Jeff Davis 4 years. Bill McKinney 5 years. John Bakus report preparation and research 8 years prospecting experience.					

#### NEW WORK (as required under Section 15 of the MTA Regulation; see Information Updates 8 and 25 for further details)

<b>8. Actual dates work was done:</b> C Zimmer Lead and J Davis Asst Mar 22-25 2014 Field B McKinney Lead Apr 27 2014 Field J Bakus March 20-October 31, 2014 Research Report Zimmer Mar 21+26 McKinney Apr 26+May 05 Prep/Close		<b>9. Tenure number(s) of claim(s) on which this work was done:</b> 950550, 950554, 1025205, 940318 and 1025204	
<b>Detailed written description of the work activity:</b> state what was done and how it was done, and the results. Mention equipment, machinery, labourers, as applicable. The cost statement (#18 on page 2) must correspond to what is stated here (if more space is required, use the supplementary section on page 3 or attach additional sheets) <b>** Attach a 1:10,000 scale map accurately showing the locations of the work sites.**</b>			
What work was done?		UTM's and samples were taken from various locations throughout the area including Hard rock, Float Boulder, with points of interest noted and general exploration of other areas on the property. Samples in and around the Tommy K were assayed by Acme Laboratories. (See Report)	
How was the work done?		Prospecting of area, Orange flagging and marking of sample sites. Multiple photos taken of samples, and areas. GPS coordinates were taken, and all samples recorded and mapped. Prospecting notes, operating with equipment (Truck, GPS, Tools and sampling.) (See Report)	
What were the results?		Assay results for the 2014 Kennedy work program in addition to descriptions and mapping are included within. (See Report)	
<b>11. Dimensions of work done:</b> (Is the work site marked?) <input type="checkbox"/> Yes		<b>12. Amount of material excavated and tested or processed:</b> (metric units)	
		Bag size samples were taken for testing	

REPORT OF PHYSICAL EXPLORATION AND DEVELOPMENT  
Section 15 - Mineral Tenure Act Regulation

**NEW WORK** (continued)

<b>13. Geographic location of work sites; GPS coordinates; how would someone get to where the work was done; from the nearest town:</b>		
See Kennedy 2014 Physical Report Attached.		
<b>16. Are photographs of work sites attached? (Y/N)</b>	<input type="text" value="Yes"/>	
<b>17. Was Notice of work filed? (Y/N)</b>	<input type="text" value="No"/>	<b>If YES, Permit Number:</b>

**COST STATEMENT**

18. Expense(s) (complete either hourly rate or daily rate)	Total Hours OR # of days	Hourly Rate	Daily Rate	Total(s) (\$)
<b>Labour cost: (specify type)</b>				
Zimmer Lead Mar 22-25 2014 Field Mar 21+26 Prep/Close	4		\$250.00	\$1,000.00
Davis Assistant 22-25 2014 2014 Field	4		\$200.00	\$800.00
McKinney Lead Apr 27 2014 Field Apr 26+May 5 Prep/Close	1		\$250.00	\$250.00
<b>Equipment &amp; Machinery cost: (specify type)</b>				
GPS Computer clinometer Electronics chainsaw	5		\$70.00	\$350.00
VHF radios Bear spray Axes Mallets Pry bars (see report)				
Zimmer/Davis Mar 22-25 2014 McKinney Apr 27 2014				
Acme Assays Tommy K area (Tax not included)	14 Samples	\$894.33		\$894.33
<b>Lodging / Food:</b>				
	<b>Days</b>	<b>Rate(s)</b>		
Zimmer and Davis Mar 22-25 2014 2 men @ \$125.00	4		\$250.00	\$1,000.00
McKinney Apr 27 2014 @ \$125.00	1		\$250.00	\$250.00
<b>Other: (specify)</b>				
Tape Battery Bags Tags Etc March 22-25 Apr 27 2014	5		\$40.00	\$200.00
Bakus (Report and Research) March 20-October 31, 2014	1		\$250.00	\$250.00
<b>19. Total costs of work from above:</b>				\$4,994.33

20. Transportation/travel (specify type)	Days	Rate(s)	Total(s) (\$)
Zimmer/Davis Nanaimo to Kennedy River return Mar 22,26	318 KM		\$0.95 \$302.17
McKinney Vancouver to Nanaimo (Ferry) Kennedy Return Apr 27,28 2014	420 KM		\$0.95 \$399.00
<b>21. Transportation/travel, maximum 20% of value in 19:</b>			\$701.17
<b>22. Total costs of work (add 19 and 21):</b>			\$5,695.50
<b>23. Amount claimed for assessment credit on claims:</b>			\$8,135.82



**REPORT OF PHYSICAL EXPLORATION AND DEVELOPMENT**  
**Section 15 - Mineral Tenure Act Regulation**

**SUPPLEMENTARY SECTION** (use this section if more space is required)

<b>Event number(s):</b>	5506710
Geochemical and Prospecting Report On The  KENNEDY RIVER GOLD PROJECT  Consisting of 25 Adjoining mineral Claims  EVENT #5506710  Alberni Mining Division Vancouver Island, British Columbia BCGS Map 092F013 NTS Map 092F03W  Center of Property:  UTM 10U 5448559, 324475  LAT: 49,9,884N LON 125,24,469W  LAT: 49.164730N LON -125.407818  Owners:  John Bakus #3 – 1572 Lorne Street East Kamloops, B.C. V2C-1X6 FMC: 223385  Douglas Patterson B-3793 14th Avenue Port Alberni, B.C. V9Y-5B8 FMC: 120793  Operators:  March 22-25, 2014 Chris Zimmer 1411 White Street Nanaimo, B.C. V9S-1J1 FMC: 218232  April 27, 2014 Bill McKinney 11751 Shell Road Richmond, B.C. V7A-3W7 FMC: 140980  Report Prepared By: John Bakus March 20-October 31, 2014	

## APPENDIX 1. Kennedy Geochemical Samples Analytical Results

17 Samples were tested by Acme Laboratory in Vancouver, B.C. by ICP-MS and ICP/MS Aqua Regia with 12 samples being additionally fire assayed for AG

Preparation:

### PRP70-250

Rock crushed to 70% passing 10 mesh (2mm), homogenized, riffle split (250g, subsample) and pulverized to 85% passing 200 mesh (75 microns). Crusher and pulverizer are cleaned by brush and compressed air between routine samples. Granite/Quartz wash scours equipment after high-grade samples, between changes in rock colour and at end of each file.

Granite/Quartz is crushed and pulverized as first sample in sequence and carried through to analysis.

Analysis:

### LF100-EXT: Fusion ICP-MS

Standard suite Trace Elements ICP-MS (45 elements) LF100 + AQ200 add on.

#### LF 100

ELEMENT	DETECTION LIMIT	UPPER LIMIT
Be	1 ppm	10,000 ppm
Ce	0.1 ppm	50,000 ppm
Co	0.2 ppm	10,000 ppm
Cs	0.1 ppm	10,000 ppm
Dy	0.05 ppm	10,000 ppm
Er	0.03 ppm	10,000 ppm
Eu	0.02 ppm	10,000 ppm
Ga	0.5 ppm	10,000 ppm
Gd	0.05 ppm	10,000 ppm
Hf	0.1 ppm	10,000 ppm
Ho	0.02 ppm	10,000 ppm
La	0.1 ppm	50,000 ppm
Lu	0.01 ppm	10,000 ppm
Nb	0.1 ppm	50,000 ppm
Nd	0.3 ppm	10,000 ppm
Ni	20 ppm	10,000 ppm
Pr	0.02 ppm	10,000 ppm
Rb	0.1 ppm	10,000 ppm
Sc	1 ppm	10,000 ppm
Sm	0.05 ppm	10,000 ppm
Sn	1 ppm	10,000 ppm
Sr	0.5 ppm	50,000 ppm
Ta	0.1 ppm	50,000 ppm
Tb	0.01 ppm	10,000 ppm
Th	0.2 ppm	10,000 ppm
Tm	0.01 ppm	10,000 ppm
U	0.1 ppm	10,000 ppm
V	8 ppm	10,000 ppm
W	0.5 ppm	10,000 ppm
Y	0.1 ppm	50,000 ppm
Yb	0.05 ppm	10,000 ppm
Zr	0.1 ppm	50,000 ppm



**AQ200: Aqua Regia ICP/MS**

(Add on Elements from LF100-EXT)

Samples are leached in hot modified aqua regia then analyzed by ICP-MS.

**AQ200**

ELEMENT	DETECTION LIMIT	UPPER LIMIT
Ag	0.1 ppm	100 ppm
As	0.5 ppm	10,000 ppm
Au	0.5 ppb	100,000 ppb
Bi	0.1 ppm	2,000 ppm
Cd	0.1 ppm	2,000 ppm
Cu	0.1 ppm	10,000 ppm
Hg	0.01 ppm	50 ppm
Mo	0.1 ppm	2,000 ppm
Ni	0.1 ppm	10,000 ppm
Pb	0.1 ppm	10,000 ppm
Sb	0.1 ppm	2,000 ppm
Se	0.5 ppm	100 ppm
Tl	0.1 ppm	1,000 ppm
Zn	1 ppm	10,000 ppm

**FA530-AG Gravimetric Fire Assay ICP/MS**

Lead collection fire assay fusion - gravimetric finish digestion of the Ag and Au dore bead and this analysis by ICP-MS.





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 Bureau Veritas Commodities Canada Ltd.  
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 PHONE (604) 253-3158

www.acmelab.com

Client: **MLS Mining Corp.**  
 #3-1572 Lorne Street East  
 Kamloops BC V2C 1X6 CANADA

Project: Kennedy Van Isle  
 Report Date: August 22, 2014

Page: 2 of 2 Part: 2 of 3

**CERTIFICATE OF ANALYSIS** VAN14002280.1

Method	Analyte	Unit	MDL	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200
				Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	Ac	Cd	Sb			
TKT-01-14	Rock			1.50	7.2	1.92	0.96	2.54	0.45	2.34	0.55	1.56	0.22	1.33	0.20	0.5	393.0	44.4	>10000	38.4	5.1	249.1	0.3			
TKT-02-14	Rock			0.18	1.1	0.40	0.21	0.48	0.08	0.53	0.11	0.39	0.04	0.26	0.05	1.1	>10000	52.3	545	17.4	1.0	14.3	0.2			
TKT-03-14	Rock			2.16	11.0	2.90	0.82	3.46	0.59	3.32	0.79	1.86	0.28	2.18	0.31	0.7	182.5	1.8	136	46.6	0.7	0.3	0.2			
TKT-04-14	Rock			2.43	12.5	3.23	0.66	3.88	0.67	3.80	0.86	2.41	0.32	1.98	0.30	0.5	801.6	7.7	1585	61.5	1.5	27.6	<0.1			
TKT-05-14	Rock			2.86	12.2	3.78	1.37	4.55	0.79	4.23	0.96	2.59	0.39	2.24	0.35	0.4	178.8	1.6	138	64.5	3.1	0.3	0.1			
TKT-06-14	Rock			2.75	13.8	3.83	1.37	4.51	0.83	4.59	1.03	2.70	0.40	2.65	0.37	0.3	212.7	1.1	94	61.8	1.9	0.2	0.1			
TKT-07-14	Rock			3.26	14.8	4.27	1.35	5.03	0.92	4.81	1.11	3.07	0.45	2.73	0.40	0.2	272.1	1.3	206	75.2	<0.5	0.3	0.1			
TKT-08-14	Rock			1.98	8.6	2.19	0.79	2.60	0.50	2.86	0.62	1.99	0.27	1.85	0.34	0.5	74.8	5.5	32	38.6	0.7	0.2	<0.1			
TKV-01-14	Rock			0.20	1.1	0.41	0.55	0.56	0.10	0.70	0.14	0.34	0.06	0.34	0.04	0.9	2677.9	263.7	175	6.3	0.5	4.3	0.3			
TKV-02-14	Rock			0.20	0.7	0.22	0.80	0.46	0.07	0.50	0.09	0.25	0.03	0.23	0.03	0.9	>10000	156.9	657	7.8	2.8	18.1	0.3			
TKV-03-14	Rock			0.12	0.6	0.05	0.41	0.30	0.05	0.31	0.07	0.13	0.02	0.14	0.02	1.1	>10000	734.9	1597	25.1	3.1	36.5	2.0			
TKV-04-14	Rock			0.24	1.5	0.46	0.94	0.62	0.13	0.82	0.15	0.49	0.08	0.42	0.06	0.1	2361.0	27.3	157	11.2	2.4	3.6	0.2			
TKV-05-14	Rock			2.13	10.0	3.02	0.88	3.36	0.57	3.38	0.74	2.10	0.29	1.93	0.31	0.6	694.9	6.4	772	56.6	1.3	11.3	0.1			
TKV-06-14	Rock			2.18	11.2	2.75	0.69	3.34	0.61	3.28	0.80	2.11	0.29	1.95	0.28	0.9	702.8	8.7	1667	54.4	3.5	26.3	0.2			



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 Report Date: August 22, 2014

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**CERTIFICATE OF ANALYSIS** VAN14002280.1

Method	Analyte	Unit	MDL	AG200	AG200	AG200	AG200	AG200	AG200	FA430	FA630
				Bi	Ag	Au	Hg	Tl	Se	Au	Au
TKT-01-14	Rock			13.0	2.6	1900.0	0.26	<0.1	0.7	0.420	
TKT-02-14	Rock			47.5	40.9	15640.2	0.03	<0.1	0.9		13.4
TKT-03-14	Rock			0.9	0.2	36.5	<0.01	<0.1	<0.5		
TKT-04-14	Rock			2.1	1.3	30.7	0.04	<0.1	0.6		
TKT-05-14	Rock			0.4	0.2	3.0	<0.01	<0.1	0.5		
TKT-06-14	Rock			0.1	0.2	7.2	<0.01	<0.1	<0.5		
TKT-07-14	Rock			0.2	0.3	4.9	<0.01	<0.1	<0.5		
TKT-08-14	Rock			<0.1	<0.1	1.2	<0.01	<0.1	<0.5		
TKV-01-14	Rock			257.0	19.8	10902.4	0.02	<0.1	0.8		108.5
TKV-02-14	Rock			151.3	62.8	37233.6	0.07	<0.1	1.4		25.7
TKV-03-14	Rock			956.2	82.8	48948.5	0.11	<0.1	3.3		94.7
TKV-04-14	Rock			23.7	6.0	731.9	0.02	<0.1	1.0		3.487
TKV-05-14	Rock			4.0	1.0	411.7	0.03	<0.1	<0.5		1.263
TKV-06-14	Rock			6.2	1.1	127.8	0.05	<0.1	0.7		0.594





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**QUALITY CONTROL REPORT**

**VAN14002280.1**

Method	AG200	AG200	AG200	AG200	AG200	AG200	FA430	FA630
Analyte	Bi	Ag	Au	Hg	Tl	Se	Au	Au
Unit	ppm	ppm	ppb	ppm	ppm	ppm	ppm	gm/t
MDL	0.1	0.1	0.6	0.01	0.1	0.6	0.006	0.9
Pulp Duplicates								
REP G1	QC							
TKT-04-14	Rock	2.1	1.3	30.7	0.04	<0.1	0.6	
REP TKT-04-14	QC	1.9	1.3	24.7	0.03	<0.1	<0.5	
TKV-03-14	Rock	956.2	82.8	48948.5	0.11	<0.1	3.3	94.7
REP TKV-03-14	QC							76.2
Reference Materials								
STD AGPROOF	Standard							<0.9
STD AGPROOF	Standard							<0.9
STD D010	Standard	12.5	1.9	66.8	0.29	5.6	2.1	
STD OREA045EA	Standard	0.4	0.2	54.3	0.01	<0.1	1.3	
STD OXD108	Standard							0.416
STD OXD108	Standard							0.401
STD OXI121	Standard							1.832
STD OXI121	Standard							1.834
STD OXN117	Standard							7.667
STD OXN117	Standard							7.679
STD 00-18	Standard							
STD 00-18	Standard							
STD 0P49	Standard							18.4
STD 0P49	Standard							18.4
STD 0P49	Standard							18.5
STD 0P49	Standard							18.3
STD D010 Expected		11.65	2.02	91.9	0.3	5.1	2.3	
STD OREA045EA Expected		0.26	0.26	53		0.072	0.6	
STD 00-18 Expected								
STD 0P49 Expected								18.34
STD AGPROOF Expected								0
STD OXD108 Expected								0.414

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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**QUALITY CONTROL REPORT**

**VAN14002280.1**

	WGHT	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	
	Wgt	Ba	Be	Co	Ce	Ga	Hf	Nb	Rb	Sn	Sr	Ta	Th	U	V	W	Zr	Y	La	Ce
	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.01	1	1	0.2	0.1	0.6	0.1	0.1	0.1	1	0.6	0.1	0.2	0.1	8	0.6	0.1	0.1	0.1	0.1
STD OXN117 Expected																				
STD OXI121 Expected																				
BLK	Blank																			
BLK	Blank	<1	<1	<0.2	<0.1	<0.5	<0.1	<0.1	<0.1	<1	<0.5	<0.1	<0.2	<0.1	<8	<0.5	<0.1	<0.1	<0.1	<0.1
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
BLK	Blank																			
Prep Wash																				
G1	Prep Blank	1047	6	4.7	4.5	19.0	4.4	25.1	134.1	2	779.9	1.5	12.8	5.1	58	<0.5	162.8	16.0	32.6	66.1
G1	Prep Blank																			
G1	Prep Blank	1027	4	4.6	4.9	19.9	4.2	23.0	134.4	4	783.2	1.2	10.7	4.1	56	1.8	160.4	17.9	32.3	63.8



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**QUALITY CONTROL REPORT** VAN14002280.1

		LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	LF100	AG200	AG200	AG200	AG200	AG200	AG200	AG200	AG200
		Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Mo	Cu	Pb	Zn	Ni	As	Cd	Sb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
STD OXN117 Expected		0.02	0.3	0.06	0.02	0.06	0.01	0.06	0.02	0.03	0.01	0.06	0.01	0.1	0.1	0.1	1	0.1	0.6	0.1	0.1
STD OX1121 Expected																					
BLK	Blank													<0.1	0.3	<0.1	<1	<0.1	<0.5	<0.1	<0.1
BLK	Blank	<0.02	<0.3	<0.05	<0.02	<0.05	<0.01	<0.05	<0.02	<0.03	<0.01	<0.05	<0.01								
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
G1	Prep Blank	7.07	26.2	4.52	1.17	3.70	0.58	3.05	0.65	1.85	0.31	2.09	0.35	<0.1	3.7	3.1	43	2.5	<0.5	<0.1	<0.1
G1	Prep Blank													0.1	5.2	3.8	51	2.9	<0.5	<0.1	<0.1
G1	Prep Blank	7.04	27.0	4.62	1.18	3.52	0.57	3.26	0.66	1.85	0.31	2.14	0.33								



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Report Date: August 22, 2014

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**QUALITY CONTROL REPORT** VAN14002280.1

		AG200	AG200	AG200	AG200	AG200	FA430	FA530
		Bi	Ag	Au	Hg	Tl	Se	Au
		ppm	ppm	ppb	ppm	ppm	ppm	gm/t
STD OXN117 Expected		0.1	0.1	0.6	0.01	0.1	0.6	0.006
STD OX1121 Expected								7.679
BLK	Blank	<0.1	<0.1	<0.5	<0.01	<0.1	<0.5	1.834
BLK	Blank							<0.005
BLK	Blank							<0.005
BLK	Blank							<0.5
BLK	Blank							<0.5
BLK	Blank							<0.5
BLK	Blank							<0.005
BLK	Blank							<0.005
Prep Wash								
G1	Prep Blank	<0.1	<0.1	<0.5	<0.01	0.3	<0.5	
G1	Prep Blank	<0.1	<0.1	<0.5	<0.01	0.4	<0.5	
G1	Prep Blank							



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 GST # 843013921 RT

Bill To: MLS Mining Corp.  
 #3-1572 Lorne Street East  
 Kamloops, BC V2C 1X6  
 CANADA

Invoice Date: August 14, 2014  
 Invoice Number: **VANI206157**  
 Submitted by: John Bakus  
 Email: irsol@telus.net  
 Job Number: VAN14002280  
 Order Number:  
 Project Code: Kennedy Van Isle  
 Shipment ID:  
 Quote Number:

Item	Package	Description	Sample No.	Unit Price	Amount
1	BAT01	Batch surcharge for <20 samples	1	\$50.00	\$50.00
2	PRP70-250	Crush and Pulverize 250 g	14	\$7.20	\$100.80
3	LF100-EXT	Total Trace Elements by ICP-MS-Full S	14	\$40.15	\$562.10
4	DRPLP	Dispose or return handling of pulps	14	\$0.10	\$1.40
5	DRRJT	Dispose or return handling of reject	13	\$0.35	\$4.55
6	FA430	30g Fire Assay for Au, AAS	4	\$16.00	\$64.00
7	FA530-AU	Au by 30g Grav Fire Assay	4	\$19.60	\$78.40
8	SHIP	Collect shipment charges	1	\$33.08	\$33.08
			Net Total		\$894.33
			Canadian GST		\$44.72
			<b>Grand Total</b>	<b>CAD</b>	<b>\$939.05</b>

Invoice Stated In Canadian Dollars

## APPENDIX 2. Kennedy 2013 Work Site Photographs

Tommy K Lower Adit



Tommy K Tailings



Tommy K vein sample TV-03



KND-01-14 Quartz vein running through creek bed



Tommy K drill collar



Tommy K vein sample TV-03





## APPENDIX 3. Bakus Patterson Kennedy Minfile/Inventory Reports



MINFILE Detail Report  
 BC Geological Survey  
 Ministry of Energy, Mines & Petroleum Resources

### Location/Identification

MINFILE Number: 092F 033  
 Name(s): TOMMY K  
 KENNEDY LAKE GOLD, KENNEDY RIVER  
 Status: Developed Prospect  
 Mining Division: Alberni  
 Electoral District: Alberni-Qualicum  
 Forest District: South Island Forest District  
 Regions: British Columbia, Vancouver Island  
 BCGS Map: 092F014  
 NTS Map: 092F03W  
 UTM Zone: 10 (NAD 83)  
 Latitude: 49 09 59 N  
 Northing: 5448719  
 Longitude: 125 23 50 W  
 Easting: 325253  
 Elevation: 110 metres  
 Location Accuracy: Within 500M  
 Comments: Adit.

### Mineral Occurrence

Commodities: Gold, Silver, Copper, Lead, Zinc  
 Minerals Significant: Pyrrhotite, Pyrite, Chalcopyrite, Arsenopyrite, Sphalerite, Galena  
 Associated: Quartz, Calcite  
 Alteration Type: Silicific'n  
 Mineralization Age: Unknown  
 Deposit Character: Vein, Stockwork  
 Classification: Hydrothermal, Epigenetic  
 Type: I06: Cu+/-Ag quartz veins, I05: Polymetallic veins Ag-Pb-Zn+/-Au  
 Dimension: 1400x200x0 metres Strike/Dip: 065/80N  
 Comments: steeply north. Zone containing veins. Adit vein strikes 55 to 75 degrees and dips

### Host Rock

Dominant Host Rock: Volcanic  
 Stratigraphic Age Group Formation Igneous/Metamorphic/Other  
 Upper Triassic Vancouver Karmutsen -----  
 Isotopic Age Dating Method Material Dated  
 -----  
 Lithology: Andesite, Andesitic Breccia, Granite

### Geological Setting

Tectonic Belt: Insular Physiographic Area: Vancouver Island Ranges  
 Terrane: Wrangell

### Inventory

Ore Zone: SAMPLE Year: 2009  
 Category: Assay/analysis Report On: N  
NI 43-101: N

Sample Type: Grab

Commodity	Grade
Silver	42.8 grams per tonne
Gold	32.71 grams per tonne
Copper	0.63 per cent

Comments: Sample 813502.  
 Reference: EMPR ASS RPT 31094

Ore Zone: VEIN Year: 1980  
 Category: Assay/analysis Report On: N  
NI 43-101: N

Sample Type: Chip

Commodity	Grade
Silver	154,0000 grams per tonne
Gold	66,9000 grams per tonne
Copper	4,1900 per cent

Comments: A 0.15-metre sample.  
 Reference: Assessment Report 9606.

### Summary Production

		Metric	Imperial
	Mined:	4 tonnes	4 tons
	Milled:	0 tonnes	0 tons
Recovery	Silver	62 grams	2 ounces
	Gold	31 grams	1 ounces
	Copper	11 kilograms	24 pounds

### Capsule Geology

The Kennedy River property is located approximately 30 kilometres west of Port Alberni, along Highway 3 between Port Alberni and Tofino.

Upper Triassic andesites and andesitic breccia and tuffs of the Karmutsen Formation (Vancouver Group) are intruded by granodiorite of the Early to Middle Jurassic Island Intrusions and Tertiary dacitic dykes. The rocks are cut by northwest-trending faults which typically show intense shearing and local sericitization, silicification and pyritization over widths of 0.5 to 2 metres.

A 1400 by 200 metre zone of narrow planar quartz veinlets trends northeast through andesitic breccias and flows near the contact with granitic intrusives. The veinlets dip steeply and vary from 0.1 to 10 centimetres thick. Individual veins comprise coarsely crystalline quartz, about 10 per cent calcite and up to 2 per cent sulphides, which include pyrrhotite, pyrite, chalcocopyrite, arsenopyrite, sphalerite and galena. The veins are locally silicified.

The Adit vein strikes 55 to 75 degrees for 70 metres, dips north and is up to 0.8 metres thick. A 15 centimetre sample of a vein (possibly the old Hidden Treasure vein), about 150 metres east of the adit, assayed 66.9 grams per tonne gold, 154 grams per tonne silver and 4.19 per cent copper (Assessment Report 9606). A 5-metre sample from a nearby trench assayed 4.2 grams per tonne gold (Assessment Report 12767).

The Tommy occurrence was discovered in 1933.

The deposit was worked in 1934 and produced 31 grams of gold, 62 grams of silver and 11 kilograms of copper from a total of 4 tonnes mined

(Mineral Policy data).

From 1980 to 1981, owner W. Ejtet completed extensive systematic sampling and schematic mapping of blasted open cuts.

In 1984, W. Ejtet optioned his Kennedy River property to International Phoenix Energy Corp., who in turn optioned the property to Teck Explorations Ltd. Teck then conducted grid-based geological mapping, soil geochemistry, ground magnetic and electromagnetic surveys, trench mapping and sampling and stream sediment geochemistry.

In 1985, Teck Exploration Ltd. completed trench sampling and prospecting.

In 1987, Kerr Addison Mines Ltd. optioned the property and completed geological mapping, trench sampling and 1656 metres of diamond drilling in eight holes.

The property was dormant from 1988 until 2009.

In 2009, G4G Resources Ltd. completed prospecting on the Kennedy River property. Highlights include sample 813502, which was taken from the main vein in the Tommy adit and returned 32.71 grams per tonne gold, 42.8 grams per tonne silver and 0.63 per cent copper (Assessment Report 31094).

In 2010, G4G Resources Ltd. contracted Auracle Geospatial Science Inc. to carry out a data acquisition, compilation and remote sensing program on the Kennedy River property.

### *Bibliography*

- EMPR AR 1934-A28; \*1935-F48; 1939-42  
EMPR ASS RPT 9606, 11940, \*12767, \*14279, \*16474, \*16729, \*31094, 32332  
EMPR BC METAL MM00111  
EMPR BULL 20, part V, p. 26; 55  
EMPR EXPL 1981-71; 1984-159-160; 1985-145; 1987-C141; 1988-C84  
EMPR INDEX 3-216  
EMPR PF (Report by P. Eastwood (see 092F 032, Rose Marie);  
\*Henneberry, R.T. (1987): Economic Potential of the Kennedy  
River Gold Camp, Vancouver Island, British Columbia (located  
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Summary for International Coast Minerals Corporation; Drummond,  
A.D. (1984): Report on the United Tommy Group for International  
Phoenix Energy Corporation)  
GSC MAP 17-1968, 1386A  
GSC MEM 204, p. 28  
GSC OF 463  
GSC P 68-50, p. 38  
GCNL #111, 1985; #131, 1988  
N MINER Nov. 17, 1986  
WIN Jan., 1987  
Hudson, R. (1997): A Field Guide to Gold, Gemstone & Mineral Sites of  
British Columbia, Vol. 1: Vancouver Island, p. 143



**Location/Identification**

MINFILE Number: 092F 045  
 Name(s): SHACK  
 CAPTAIN HOOK, GIANT BEAR, IRON SIDE MC  
 Status: Developed Prospect  
 Mining Division: Alberni  
 Electoral District: Alberni-Qualicum  
 Regions: British Columbia, Vancouver Island  
 Forest District: South Island Forest District  
 BCGS Map: 092F013  
 NTS Map: 092F03W  
 UTM Zone: 10 (NAD 83)  
 Latitude: 49 10 04 N  
 Northing: 5448928  
 Longitude: 125 25 14 W  
 Easting: 323557  
 Elevation: 120 metres  
 Location Accuracy: Within 500M  
 Comments: One kilometre west of Kennedy River (Press Release June 20, 1988). Also see the Bear (092F 044) occurrence.

**Mineral Occurrence**

Commodities: Gold, Silver, Copper, Zinc  
 Minerals Significant: Pyrite, Pyrrhotite, Chalcopyrite, Sphalerite  
 Associated: Quartz  
 Alteration: Silica, Kaolinite, Pyrite  
 Alteration Type: Silicific'n, Argillic, Pyrite  
 Mineralization Age: Tertiary  
 Deposit Character: Vein  
 Classification: Hydrothermal, Epigenetic  
 Type: I06: Cu+/-Ag quartz veins  
 Shape: Tabular Modifier: Faulted, Sheared  
 Dimension: 160x122x0 metres Strike/Dip: 053/63N  
 Comments: Vein extends for 160 metres along strike and has been tested to a depth of 122 metres.

**Host Rock**

Dominant Host Rock: Volcanic  
 Stratigraphic Age Group Formation Igneous/Metamorphic/Other  
 Upper Triassic Vancouver Karmutsen -----  
 Isotopic Age Dating Method Material Dated  
 -----  
 Lithology: Andesite, Basalt, Tuff, Volcaniclastic, Limestone, Quartz Diorite, Granodiorite

**Geological Setting**

Tectonic Belt: Insular Physiographic Area: Vancouver Island Ranges  
 Terrane: Wrangell

Metamorphic Type: Regional Relationship: Pre-mineralization  
Grade: Greenschist

### Inventory

Ore Zone: SHACK Year: 1988  
Category: Combined Report On: Y  
Quantity: 37,920 tonnes NI 43-101: N

Commodity	Grade
Gold	19.2000 grams per tonne

Comments: From 37,920 to 42,015 tonnes probably or possible ore grading from 19.20 to 24.03 grams per tonne gold.

Reference: Assessment Report 18693.

### Capsule Geology

The Shack occurrence is located on a hill over looking the Kennedy River to the east, approximately 4.5 kilometres north of the river mouth on Kennedy Lake.

Karmutsen Formation volcanics and Quatsino Formation limestones of the Upper Triassic Vancouver Group are intruded by the Early to Middle Jurassic Island Intrusions consisting of granodiorite to quartz diorite. The Karmutsen rocks consist of andesitic to basaltic flows, tuffs and volcanoclastics. West-northwest trending fault/shear zones of Tertiary age cut the rocks.

The Shack vein is emplaced along a north east trending fault which is probably a splay of the Mine Fault. The vein, hosted by andesite, averages 40 centimetres in width and extends for 160 metres along strike (053 degrees), dipping 60 to 67 degrees to the northwest. As indicated by drilling the vein contains 2 to 3 per cent pyrite, pyrrhotite, chalcopyrite and sphalerite. The wall- rocks are silicified, kaolinized and pyritized. In 1988, fourteen drill holes tested the vein and gave a weighted average of 11.4 grams per tonne gold and 77.5 grams per tonne silver across an estimated true width of 48 centimetres (Assessment Report 18693).

A preliminary ore reserve estimate for the Shack vein has been calculated based on surface sampling and diamond drilling. The deposit contains from 37,920 to 42,015 metric tonnes of probable or possible ore grading from 19.20 to 24.03 grams per tonne gold (Assessment Report 18693). The vein has been tested to a depth of 122 metres where it remains open. It also remains open along strike at both ends.

The Iron Side claim was originally staked in the period around 1899 to 1902 and owned by T.O. MacKay. In 1938, the claims were sold to Kennedy Lake Gold Mines. In 1988, Golden Spinnaker Minerals completed a program of geological mapping, ground magnetic surveys, geochemical sampling and seventeen diamond drill holes, totalling 908 metres. In 2009 and 2010, G4G Resources Limited completed a program of prospecting and remote sensing, consisting of spectral analysis and synthetic aperture radar analyses, on the area as the G4G property.

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EMPR BULL 55  
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GCNL #38, 1989  
N MINER Dec.19, 1988  
WWW [http://www.infomine.com/index/properties/KENNEDY\\_RIVER.html](http://www.infomine.com/index/properties/KENNEDY_RIVER.html)  
Carson, D.J.T. (1968): Metallogenic Study of Vancouver Island With Emphasis on the Relationships of Mineral Deposits to Plutonic Rocks, Unpublished Ph.D. Thesis, Carleton University  
Hudson, R. (1997): A Field Guide to Gold, Gemstone & Mineral Sites of British Columbia, Vol. 1: Vancouver Island, p. 143  
Hudson, R. (1997): A Field Guide to Gold, Gemstone & Mineral Sites of British Columbia, Vol. 1: Vancouver Island, p. 143



**Location/Identification**

MINFILE Number:	092F 046		
Name(s):	<u>OLYMPIC</u> TITANIC, JULIUS CREEK, BASELINE, KRISTEN II		
Status:	Showing	Mining Division:	Alberni
Regions:	British Columbia, Vancouver Island	Electoral District:	Alberni-Qualicum
BCGS Map:	092F013	Forest District:	South Island Forest District
NTS Map:	092F03W	UTM Zone:	10 (NAD 83)
Latitude:	49 10 59 N	Northing:	5450607
Longitude:	125 24 45 W	Easting:	324199
Elevation:	100 metres		
Location Accuracy:	Within 500M		
Comments:	Olympic showing on Figure 4 (Assessment Report 15935).		

**Mineral Occurrence**

Commodities:	Gold, Silver, Copper		
Minerals	Significant:	Pyrite, Chalcopyrite	
	Associated:	Quartz	
	Alteration:	Chlorite, Limonite, Sericite, Silica	
	Alteration Type:	Silicific'n, Chloritic, Oxidation	
	Mineralization Age:	Tertiary	
Deposit	Character:	Vein	
	Classification:	Hydrothermal, Epigenetic	
	Type:	I06: Cu+/-Ag quartz veins	
	Strike/Dip:	107/75N	

**Host Rock**

Dominant Host Rock:	Volcanic		
Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Upper Triassic	Vancouver	Karmutsen	-----
Isotopic Age	Dating Method	Material Dated	
-----	-----	-----	
Lithology:	Andesite		

**Geological Setting**

Tectonic Belt:	Insular	Physiographic Area:	Vancouver Island Ranges
Terrane:	Wrangell		

Metamorphic Type: Regional Relationship: Pre-mineralization  
Grade: Greenschist

### Inventory

Ore Zone: SAMPLE Year: 1987  
Category: Assay/analysis Report On: N  
NI 43-101: N  
Sample Type: Chip

Commodity	Grade
Silver	49.3700 grams per tonne
Gold	3.3500 grams per tonne

Comments: 8 centimetre sample.  
Reference: Assessment Report 15935.

### Capsule Geology

The Olympic occurrence is located on Olympic Creek, an easterly flowing tributary of the Kennedy River.

Karmutsen Formation volcanics of the Upper Triassic Vancouver Group are intruded by the Early to Middle Jurassic Island Intrusions consisting of granodiorite to quartz diorite. The Karmutsen rocks consist of andesitic to basaltic flows, tuffs and volcanoclastics. West-northwest trending fault shear zones of Tertiary age cut the rocks.

Two showings occur along the Julius Creek shear zone. The Olympic showing, a 5 to 40 centimetre wide quartz vein striking 107 degrees and dipping 75 degrees north, contains pyrite and chalcopyrite. Wallrock alteration of the Karmutsen andesites consists of chlorite, limonite, sericite and silicification. An 8 centimetre chip sample assayed 3.35 grams per tonne gold and 49.37 grams per tonne silver (Assessment Report 15935).

The Baseline showing, located 200 metres east-southeast of the Olympic, is a quartz vein mineralized with pyrite and chalcopyrite. The vein is 10 to 50 centimetres wide and outcrops sporadically for 30 metres.

The Olympic and Titanic veins were originally discovered in 1913. In 1986, K. Gourley staked the Blaster claim and completed a prospecting program and a geochemical silt survey the following year. From 1987 to 1988, Nationwide Gold Mines and Golden Spinnaker Minerals optioned the property and completed programs of trenching, VLF-EM surveys and diamond drilling. In 1988, bulk sampling and fourteen diamond drill holes, totalling 819 metres, were completed on the Elite 1 vein and nearby Rachel vein. In 1991, Kancana Ventures optioned the property. IA lone grab sample, from the Kristen II vein, returned values of 15.7 grams per tonne gold and 18.8 grams per tonne silver (Assessment Report 25493). From 1993 to 1995, the property was returned to and later prospected by K. Gourley. The area has been explored in conjunction with the nearby Blue Bird occurrence (MINFILE 092F 051).

### Bibliography

EMPR AR 1913-279  
EMPR ASS RPT \*15935, 15949, 18218, 21563, 22456, 22971, 23451, 23931, \*25493  
EMPR BULL 55  
EMPR PF (\*Henneberry, R.T. (1987): Economic Potential of the Kennedy River Gold Camp, Vancouver Island, British Columbia (located in 92F 044, Bear file))  
EMPR 1987-C143  
GSC MAP 17-1968, 1386A  
GSC OF 463  
GSC P 68-50  
Hudson, R. (1997): A Field Guide to Gold, Gemstone & Mineral Sites of British Columbia, Vol. 1: Vancouver Island, p. 143  
Date Coded: 1985/07/24 Coded By: BC Geological Survey (BCGS) Field Check: N  
Date Revised: 2012/12/10 Revised By: Karl A. Flower(KAF) Field Check: N



**Location/Identification**

MINFILE Number: 092F 051  
 Name(s): **BLUE BIRD**  
 BLASTER, ELITE  
 Status: Showing  
 Mining Division: Alberni  
 Electoral District: Alberni-Qualicum  
 Regions: British Columbia, Vancouver Island  
 Forest District: South Island Forest District  
 BCGS Map: 092F013  
 NTS Map: 092F03W  
 UTM Zone: 10 (NAD 83)  
 Latitude: 49 11 01 N  
 Northing: 5450684  
 Longitude: 125 25 08 W  
 Easting: 323735  
 Elevation: 160 metres  
 Location Accuracy: Within 1KM  
 Comments: Located from Assessment Report 15949, the author of which believes that the "Blaster" showings (including the Elite vein) are the same as the old "Blue Bird" showings mentioned in Minister of Mines Annual Report 1923 (see also 092F 044 - Bear).

**Mineral Occurrence**

Commodities: Gold, Silver, Copper, Zinc  
 Minerals  
 Significant: Pyrite, Pyrrhotite, Arsenopyrite, Chalcopyrite, Sphalerite  
 Associated: Quartz  
 Alteration: Chlorite, Silica, Limonite  
 Alteration Type: Chloritic, Silicific'n, Oxidation  
 Mineralization Age: Tertiary  
 Deposit  
 Character: Vein  
 Classification: Hydrothermal, Epigenetic  
 Type: I06: Cu+/-Ag quartz veins  
 Shape: Tabular      Modifier: Sheared

**Host Rock**

Dominant Host Rock: Volcanic  
 Stratigraphic Age      Group      Formation      Igneous/Metamorphic/Other  
 Upper Triassic      Vancouver      Karmutsen      -----  
 Isotopic Age      Dating Method      Material Dated  
 -----      -----      -----  
 Lithology: Andesite, Basalt, Tuff, Volcaniclastic

**Geological Setting**

Tectonic Belt: Insular      Physiographic Area: Vancouver Island Ranges



Terrane: Wrangell  
 Metamorphic Type: Regional Relationship: Pre-mineralization  
 Grade: Greenschist

**Inventory**

Ore Zone: ELITE VEIN Year: 1987  
 Category: Assay/analysis Report On: N  
 NI 43-101: N

Sample Type: Chip

Commodity	Grade
Silver	80.9100 grams per tonne
Gold	53.6900 grams per tonne

Comments: Taken across 70 centimetres.  
 Reference: Henneberry, R.T. (1987): Economic Potential of Kennedy R. Gold Camp.

Ore Zone: VEIN Year: 1923  
 Category: Assay/analysis Report On: N  
 NI 43-101: N

Sample Type: Grab

Commodity	Grade
Silver	34.3000 grams per tonne
Gold	2.0600 grams per tonne
Copper	0.7000 per cent

Comments: Mineralized vein of the Blue Bird showings.  
 Reference: Minister of Mines Annual Report 1923, page 246.

**Capsule Geology**

The occurrence is located on an unnamed, easterly flowing, tributary of the Kennedy River, approximately 6.5 kilometres north of its junction with Kennedy Lake.

Karmutsen Formation volcanics of the Upper Triassic Vancouver Group are intruded by the Early to Middle Jurassic Island Intrusions consisting of granodiorite to quartz diorite. The Karmutsen rocks consist of andesitic to basaltic flows, tuffs and volcanoclastics. West-northwest trending fault/shear zones of Tertiary age cut the rocks.

Quartz veins, mineralized with chalcopyrite, pyrite and arsenopyrite, occur in a shear zone which is up to 12 metres wide. The shear zone lies within the volcanics. A grab sample of a mineralized vein of the Blue Bird showings assayed 2.06 grams per tonne gold, 34.3 grams per tonne silver and 0.7 per cent copper (Minister of Mines Annual Report, 1923).

The Elite vein is reported to occur at this location striking 060 degrees and dipping 60 degrees to the northeast. The 35 to 75 centimetre wide quartz-sulphide vein has been traced semi-continuously for 50 metres. The Elite vein appears to occur in a hanging wall splay of the Julius Creek shear zone. Massive to weakly brecciated andesitic volcanics host the vein. Pervasive chlorite with lesser silicification, limonite and bleaching form a halo of 40 centimetres adjacent to the vein. Some pyrite was noted within the halo. Mineralization, occurring primarily as pods, seams and fracture coatings, consists predominantly of pyrite and pyrrhotite. Arsenopyrite and sphalerite are also observed. Of 10 samples taken the best assay obtained was 53.69 grams per tonne gold and 80.91 grams per tonne silver across 60 centimetres. The lowest assay was 2.95 grams per tonne gold and 12.34 grams per tonne silver across 70 centimetres (Henneberry, 1987).

In 1986, K. Gourley staked the Blaster claim and completed a prospecting program and a geochemical silt survey the following year. From 1987 to 1988, Nationwide Gold Mines and Golden Spinnaker Minerals optioned the property and completed programs of trenching, VLF-EM surveys and diamond drilling. In 1988, bulk sampling and fourteen diamond drill holes, totalling 819 metres, were completed on the Elite 1 vein and nearby Rachel vein. In 1989, bulk sampling of surface exposures at the Elite 1 vein returned an average of 68.2 grams per tonne gold and diamond drilling returned up to 9.4 grams per tonne gold over 0.32 metre. In 1991, Kancana Ventures optioned the property. From 1993 to 1995, the property was returned to and

later prospected by K. Gourley. The area has been explored in conjunction with the nearby Olympic occurrence (MINFILE 092F 046). In 1995, sampling of the Elite veins assayed up to 11 grams per tonne gold, 28.5 grams per tonne silver and 37 parts per million tellurium over 0.10 metre (Assessment Report 25493).

### *Bibliography*

EMPR AR \*1923-246

EMPR ASS RPT \*15949, 18218, 21563, 22456, 22971, 23451, 23931, 25493

EMPR BULL 55

EMPR EXPL 1987-C140

EMPR FIELDWORK 1988, pp. 61-74

EMPR PF (\*Henneberry, R. T. (1987): Economic Potential of the Kennedy River Gold Camp, Vancouver Island, British Columbia; New Releases, International Coast Minerals Corp.: Nov.10, 1987, \*June 20, 1988 (see 92F 044, Bear file for these reports))

GSC MAP 17-1968: 1386A

GSC OF 463

GSC P 68-50; 72-44

GCNL \*#38, 1989

Carson, D.J.T. (1968): Metallogenic Study of Vancouver Island With Emphasis on the Relationships of Mineral Deposits to Plutonic Rocks, Unpublished Ph.D. Thesis, Carleton University

Hudson, R. (1997): A Field Guide to Gold, Gemstone & Mineral Sites of British Columbia, Vol. 1: Vancouver Island, p. 143

<b>Date Coded:</b>	1985/07/24	<b>Coded By:</b>	BC Geological Survey (BCGS)	<b>Field Check:</b>	N
<b>Date Revised:</b>	2012/12/10	<b>Revised By:</b>	Karl A. Flower(KAF)	<b>Field Check:</b>	N



**Location/Identification**

**MINFILE Number:** 092F 099  
**Name(s):** ESTHER  
  
**Status:** Showing  
**Regions:** British Columbia, Vancouver Island  
**BCGS Map:** 092F013  
**NTS Map:** 092F03W  
**Latitude:** 49 09 35 N  
**Longitude:** 125 24 18 W  
**Elevation:** 80 metres  
**Location Accuracy:** Within 500M  
**Comments:** About 500 metres east of Kennedy River, about 4.0 kilometres from Kennedy Lake (Assessment Report 11940).

**Mining Division:** Alberni  
**Electoral District:** Alberni-Qualicum  
**Forest District:** South Island Forest District  
  
**UTM Zone:** 10 (NAD 83)  
**Northing:** 5447996  
**Easting:** 324663

**Mineral Occurrence**

**Commodities:** Gold, Silver, Zinc, Copper, Lead  
  
**Minerals**  
**Significant:** Pyrite, Pyrrhotite, Sphalerite, Chalcopyrite, Galena  
**Associated:** Quartz, Carbonate, Chlorite  
**Alteration:** Silica  
**Alteration Type:** Silicific'n  
**Mineralization Age:** Unknown  
  
**Deposit**  
**Character:** Stockwork, Vein  
**Classification:** Hydrothermal, Epigenetic  
**Type:** I06: Cu+/-Ag quartz veins  
**Dimension:** 100x0x0 metres  
**Comments:** Veinlets persist laterally for over 100 metres.

**Host Rock**

**Dominant Host Rock:** Volcanic  
  

<b>Stratigraphic Age</b>	<b>Group</b>	<b>Formation</b>	<b>Igneous/Metamorphic/Other</b>
Upper Triassic	Vancouver	Karmutsen	-----

<b>Isotopic Age</b>	<b>Dating Method</b>	<b>Material Dated</b>
-----	-----	-----

  
**Lithology:** Volcanic, Basalt, Andesite

**Geological Setting**

**Tectonic Belt:** Insular  
**Terrane:** Wrangell  
**Physiographic Area:** Vancouver Island Ranges

### Inventory

Ore Zone: SAMPLE Year: 1984  
 Category: Assay/analysis Report On: N  
NI 43-101: N

Sample Type: Grab

Commodity	Grade
Silver	36.34 grams per tonne
Gold	101.49 grams per tonne

Comments: A sample of a fracture containing vuggy quartz with minor chalcopyrite and galena contained 101.49 grams per tonne gold and 36.34 grams per tonne silver

Reference: Assessment Report 12047

Ore Zone: SAMPLE Year: 1983  
 Category: Assay/analysis Report On: N  
NI 43-101: N

Sample Type: Chip

Commodity	Grade
Silver	4.4600 grams per tonne
Gold	1.3000 grams per tonne

Comments: One metre chip sample.

Reference: Assessment Report 11940.

### Capsule Geology

The Esther occurrence is located on Golden Gate Creek, a tributary of the Kennedy River.

Upper Triassic basalts and andesites of the Karmutsen Formation, Vancouver Group are intruded by quartz diorite to granodiorite of the Early to Middle Jurassic Island Intrusions and Tertiary dacitic dikes of the Eocene Tofino Intrusive Suite. The rocks are cut by northwest trending faults which typically show intense shearing and local sericitization, silicification and pyritization over widths of 0.5 to 2 metres.

The showings consist of a series of sulphide bearing quartz veinlets which occupy north easterly trending fractures in Karmutsen volcanics. Over a distance of about 70 metres there are approximately 60 quartz veinlets ranging in thickness from 0.5 to 8 centimetres. The veinlets consist of coarse, milky-white, commonly drusy quartz hosting pyrite, pyrrhotite, sphalerite and chalcopyrite. The veinlets also carry fragments of wall rock, as well as accessory chlorite and carbonate. The wallrock around larger veins shows a sheared and siliceous envelope. The veinlets persist laterally for over 100 metres where they are obscured by overburden.

In 1983 and 1984, Rich Lode Gold Corp. completed programs of geochemical sampling, prospecting and geological mapping on the area. A continuous 1 metre sample of volcanic rock, containing a 0.6 metre wide quartz vein, assayed 1.30 grams per tonne gold and 4.46 grams per tonne silver (Assessment Report 11940). A sample of a fracture containing vuggy quartz with minor chalcopyrite and galena contained 101.49 grams per tonne gold and 36.34 grams per tonne silver (Assessment Report 12047).

In 2009 and 2010, G4G Resources Limited completed a program of prospecting and remote sensing, consisting of spectral analysis and synthetic aperture radar analyses, on the area as the G4G property.

### Bibliography

EMPR ASS RPT \*11940, \*12047, 16145, 31904, 32332  
 EMPR BULL 55  
 EMPR EXPL 1983-201,202  
 EMPR FIELDWORK 1988, pp. 61-74  
 GSC MAP 17-1968; 1386A  
 GSC OF 463  
 GSC P 68-50; 72-44  
 Carson, D.J.T. (1968): Metallogenic Study of Vancouver Island With

Emphasis on the Relationships of Mineral Deposits to Plutonic Rocks, Unpublished Ph.D. Thesis, Carleton University

Date Coded:	1989/12/04	Coded By:	Garry J. Payie(GJP)	Field Check:	N
Date Revised:	2013/11/28	Revised By:	Karl A. Flower(KAF)	Field Check:	N

### Location/Identification

<b>MINFILE Number:</b>	092F 480		
<b>Name(s):</b>	<u>VRL-10</u>		
<b>Status:</b>	Showing	<b>Mining Division:</b>	Alberni
		<b>Electoral District:</b>	Alberni-Qualicum
<b>Regions:</b>	British Columbia, Vancouver Island	<b>Forest District:</b>	South Island Forest District
<b>BCGS Map:</b>	092F013	<b>UTM Zone:</b>	10 (NAD 83)
<b>NTS Map:</b>	092F03W	<b>Northing:</b>	5447401
<b>Latitude:</b>	49 09 16 N	<b>Easting:</b>	324907
<b>Longitude:</b>	125 24 05 W		
<b>Elevation:</b>	280 metres		
<b>Location Accuracy:</b>	Within 500M		
<b>Comments:</b>	North of Kennedy Lake, east of Kennedy River. Located uphill to the south, from a point 20 metres upstream from the Singer Group claim post (Assessment Report 11940). Shares some of the characteristics of the Jo Jo vein (092F 047). See also 092F 099 - Esther.		

### Mineral Occurrence

<b>Commodities:</b>	Silver, Gold, Zinc, Copper		
<b>Minerals</b>	<b>Significant:</b>	Pyrrhotite, Pyrite, Sphalerite, Chalcopyrite	
	<b>Associated:</b>	Quartz	
	<b>Mineralization Age:</b>	Unknown	
<b>Deposit</b>	<b>Character:</b>	Vein	
	<b>Classification:</b>	Hydrothermal, Epigenetic	
	<b>Type:</b>	I06: Cu <sup>+</sup> -Ag quartz veins	

### Host Rock

<b>Dominant Host Rock:</b>	Plutonic		
<b>Stratigraphic Age</b>	<b>Group</b>	<b>Formation</b>	<b>Igneous/Metamorphic/Other</b>
Jurassic	-----	-----	Island Plutonic Suite
<b>Isotopic Age</b>	<b>Dating Method</b>	<b>Material Dated</b>	
-----	-----	-	
<b>Lithology:</b>	Granodiorite		

### Geological Setting

<b>Tectonic Belt:</b>	Insular	<b>Physiographic Area:</b>	Vancouver Island Ranges
<b>Terrane:</b>	Wrangell		

### *Inventory*

**Ore Zone:** FLOAT **Year:** 1983  
**Category:** Assay/analysis **Report On:** N  
**NI 43-101:** N  
**Sample Type:** Grab

Commodity	Grade
Silver	61.0300 grams per tonne
Gold	1.0300 grams per tonne
Copper	0.5800 per cent
Zinc	6.8000 per cent

**Comments:**

**Reference:** Assessment Report 11940.

### *Capsule Geology*

The VRL-10 occurrence is located on the south side of Golden Gate Creek, a tributary of the Kennedy River.

Upper Triassic basalts and andesites of the Karmutsen Formation, Vancouver Group are intruded by quartz diorite to granodiorite of the Early to Middle Jurassic Island Plutonic Suite. The rocks are cut by northwest trending faults which typically show intense shearing and local pyritization, sericitization and silicification over widths of 0.5 to 2 metres.

An 80 centimetre wide quartz vein, carrying pyrrhotite, strikes 100 degrees and dips 90 degrees within granodiorite. Float from the vein contained pyrrhotite and lesser amounts of pyrite, sphalerite and chalcopyrite.

In 1983 and 1984, Rich Lode Gold Corp. completed programs of geochemical sampling, prospecting and geological mapping on the area. A sample of the float contained 61.03 grams per tonne silver, 1.03 grams per tonne gold, 6.80 per cent zinc, 0.58 per cent copper and 0.1 per cent lead (Assessment Report 11940).

In 2009 and 2010, G4G Resources Limited completed a program of prospecting and remote sensing, consisting of spectral analysis and synthetic aperture radar analyses, on the area as the G4G property.

### *Bibliography*

EMPR ASS RPT \*11940, 31904, 32332

EMPR BULL 55

EMPR EXPL 1983-201

GSC MAP 17-1968; 1386A

GSC OF 463

GSC P 68-50; 72-44

Carson, D.J.T. (1968): Metallogenic Study of Vancouver Island With Emphasis on the Relationships of Mineral Deposits to Plutonic Rocks, Unpublished Ph.D. Thesis, Carleton University

**Date Coded:** 1989/12/05 **Coded By:** Garry J. Payie(GJP) **Field Check:** N

**Date Revised:** 2013/11/28 **Revised By:** Karl A. Flower(KAF) **Field Check:** N



**Location/Identification**

**MINFILE Number:** 092F 028  
**Name(s):** AU NORTH  
  
**Status:** Showing **Mining Division:** Alberni  
**Electoral District:** Alberni-Qualicum  
**Regions:** British Columbia, Vancouver Island **Forest District:** South Island Forest District  
**BCGS Map:** 092F014  
**NTS Map:** 092F03W **UTM Zone:** 10 (NAD 83)  
**Latitude:** 49 08 55 N **Northing:** 5446745  
**Longitude:** 125 23 52 W **Easting:** 325150  
**Elevation:** 340 metres  
**Location Accuracy:** Within 500M  
**Comments:** Located about 1.5 kilometres east of Kennedy River, 4.0 kilometres from its origin in Kennedy Lake (Assessment Report 12725).

**Mineral Occurrence**

**Commodities:** Gold, Zinc, Copper, Silver  
  
**Minerals** **Significant:** Sphalerite, Chalcopyrite, Pyrite, Pyrrhotite  
  
**Associated:** Quartz  
  
**Mineralization Age:** Unknown  
  
**Deposit** **Character:** Vein  
**Classification:** Hydrothermal, Epigenetic  
  
**Comments:** Veins trend east-west and dip about 65 degrees.

**Host Rock**

**Dominant Host Rock:** Plutonic  
  

Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Upper Triassic	Vancouver	Kamutsen	-----
Jurassic	-----	-----	Island Plutonic Suite

Isotopic Age	Dating Method	Material Dated
-----	-----	-----
-----	-----	-

  
**Lithology:** Granodiorite, Volcanic, Basalt, Andesite Dike, Hornfels

**Geological Setting**

**Tectonic Belt:** Insular **Physiographic Area:** Vancouver Island Ranges  
**Terrane:** Wrangell  
  
**Metamorphic Type:** Contact  
**Grade:** Hornfels

### *Inventory*

Ore Zone: VEIN Year: 1983  
Category: Assay/analysis Report On: N  
NI 43-101: N

Sample Type: Chip

Commodity	Grade
Silver	19.8900 grams per tonne
Gold	15.8400 grams per tonne

Comments: Across 33 centimetres.  
Reference: Assessment Report 12725.

### *Capsule Geology*

The Au North occurrence is located in the southern head waters of Golden Gate Creek, approximately 400 metres east of Turtle Lake.

The area is underlain by Upper Triassic Vancouver Group, Karmutsen Formation volcanics which are intruded by and in fault contact with granodiorite of the Early to Middle Jurassic Island Plutonic Suite. The volcanics are massive, fine grained and greenish. They contain zones of up to 8 per cent disseminated pyrite and pyrrhotite near the granodiorite intrusion, where they have been hornfelsed to a flinty, hard, biotitic, dark grey rock. Andesite dikes, mainly porphyritic containing feldspar phenocrysts, are commonly observed within the granodiorite. The dikes are thought to cut the volcanics as well but have not been recognized because of their similar appearance.

Locally, three east-west trending quartz veins dipping at about 65 degrees occur in granodiorite. They contain massive pyrite and pyrrhotite, and traces of sphalerite and chalcopyrite. The best samples were taken from the northern-most vein where it is exposed in a small creek bed. One sample taken across 33 centimetres assayed 15.84 grams per tonne gold and 19.89 grams per tonne silver (Assessment Report 12725).

In 1979, Amore Mineral Inc. completed a program of rock sampling and a ground electromagnetic survey on the area as the AU claims. In 1980, Multinational Resources completed a program of prospecting and rock sampling. In 1983, Teck Ex. completed a program of soil and rock sampling, geological mapping, a magnetometer survey and seven "winkie" diamond drill holes, totalling 174.8 metres.

In 2002, W. Guppy prospected the area as the Eastrim property.

### *Bibliography*

EMPR ASS RPT 7392, 8242, \*12725, 26921  
EMPR BULL 55  
EMPR EXPL 1979-129; 1980-169; 1983-198  
EMPR FIELDWORK 1988, pp. 61-74  
GSC MAP 17-1968; 1386A  
GSC OF 463  
GSC P 68-50; 72-44  
Carson, D.J.T. (1968): Metallogenic Study of Vancouver Island With  
Emphasis on the Relationships of Mineral Deposits to Plutonic  
Rocks, Unpublished Ph.D. Thesis, Carleton University





**Location/Identification**

MINFILE Number: 092F 121  
 Name(s): AU

Status: Showing  
 Mining Division: Alberni  
 Electoral District: Alberni-Qualicum  
 Forest District: South Island Forest District

Regions: British Columbia, Vancouver Island  
 BCGS Map: 092F014  
 NTS Map: 092F03W  
 UTM Zone: 10 (NAD 83)  
 Latitude: 49 08 44 N  
 Northing: 5446397  
 Longitude: 125 23 39 W  
 Easting: 325403  
 Elevation: 400 metres  
 Location Accuracy: Within 500M  
 Comments: Shear zone adjacent and parallel to a west flowing stream that flows into Kennedy River, just north of Kennedy Lake (Assessment Report 12725).

**Mineral Occurrence**

Commodities: Gold, Copper, Zinc, Silver

Minerals  
 Significant: Pyrite, Pyrrhotite, Chalcopyrite, Sphalerite  
 Associated: Quartz  
 Alteration: Clay, Silica, Sericite  
 Alteration Type: Argillic, Silicific'n, Sericitic  
 Mineralization Age: Unknown

Deposit  
 Character: Vein, Stockwork, Shear  
 Classification: Hydrothermal, Epigenetic  
 Type: I06: Cu+/-Ag quartz veins  
 Dimension: 550x0x0 metres  
 Comments: Mineralized shear zone 550 metres in length trends east-west.

**Host Rock**

Dominant Host Rock: Plutonic

Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Upper Triassic	Vancouver	Karmutsen	-----
Jurassic	-----	-----	Island Plutonic Suite

Isotopic Age	Dating Method	Material Dated
-----	-----	-----
-----	-----	-

Lithology: Granodiorite, Volcanic, Basalt, Porphyritic Andesite Dike, Hornfels

**Geological Setting**

Tectonic Belt: Insular  
 Physiographic Area: Vancouver Island Ranges  
 Terrane: Wrangell

Metamorphic Type: Contact  
Grade: Hornfels

### Inventory

Ore Zone: DRILLHOLE Year: 1983  
Category: Assay/analysis Report On: N  
NI 43-101: N

Sample Type: Drill Core

Commodity	Grade
Gold	8.6400 grams per tonne

Comments: From a 0.7 metre drill section.

Reference: Assessment Report 12725.

Ore Zone: VEIN Year: 1980  
Category: Assay/analysis Report On: N  
NI 43-101: N

Sample Type: Grab

Commodity	Grade
Gold	59.5 grams per tonne

Comments: The best sample assayed was of fractured quartz vein material and yielded 59.5 grams per tonne gold over 0.4 metres (sample 86238)

Reference: Assessment Report 08242

Ore Zone: VEIN Year: 1979  
Category: Assay/analysis Report On: N  
NI 43-101: N

Sample Type: Chip

Commodity	Grade
Gold	57.3 grams per tonne

Comments: A chip sample (13572) over 0.72 metres of quartz vein, massive pyrite and quartzose rock around the vein assayed 57.3 grams per tonne gold and 32.3 grams per tonne silver

Reference: Assessment Report 07392

### Capsule Geology

The Au occurrence is located on an easterly flowing tributary of the Kennedy River, approximately 750 metres south east of Turtle Lake.

The area is underlain by Upper Triassic Vancouver Group, Karmutsen Formation volcanics which are intruded by and in fault contact with granodiorite of the Early to Middle Jurassic Island Intrusions. The volcanics are massive, fine grained and greenish. They contain zones of up to 8 per cent disseminated pyrite and pyrrhotite near to the granodiorite intrusion, where they have been hornfelsed to a flinty hard, biotitic, dark grey rock. Andesite dikes, many porphyritic containing feldspar phenocrysts, are commonly observed within the granodiorite. They are thought to cut the volcanics as well but have not been recognized because of their similar appearance.

All of the above rock types are cut by later quartz veins and an east-west trending mineralized shear zone which has been traced for approximately 550 metres. The shear zone has been mineralized with quartz, pyrite, and traces of sphalerite and chalcopyrite. Although the shear zone cuts the volcanics, the mineralized quartz portion does not. Typically, the mineralized zone contains clay gouge on both sides of a highly fractured quartz vein that is up to 1 metre wide but average 0.3 to 0.4 metres. An alteration halo, from 3 to 10 metres, surrounds the vein and consists of a hard, grey,

mottled, pyritized and fine-grained mass, interpreted as a being a silicified shear breccia. Traces of sericite were also observed.

In 1979, Amore Mineral Inc. completed a program of rock sampling and a ground electromagnetic survey on the area as the AU claims. A chip sample (13572) over 0.72 metres of quartz vein, massive pyrite and quartzose rock around the vein assayed 57.3 grams per tonne gold and 32.3 grams per tonne silver (Assessment Report 07392).

In 1980, Multinational Resources completed a program of prospecting and rock sampling. The best sample assayed was of fractured quartz vein material and yielded 59.5 grams per tonne gold over 0.4 metres (sample 86238; Assessment Report 08242)

In 1983, Teck Ex. completed a program of soil and rock sampling, geological mapping, a magnetometer survey and seven "winkie" diamond drill holes, totalling 174.8 metres. A drill hole section, 14.3 to 15.1 metres depth from drill hole 7, assayed 19.6 grams per tonne gold over 0.8 metres. Another section from 23.6 to 24.1 metres of the same hole assayed 20.9 grams per tonne gold over 0.5 metres (Assessment Report 12725).

In 2002, W. Guppy prospected the area as the Easttrim property.

### *Bibliography*

EMPR ASS RPT \*7392, \*8242, \*12725, 26921

EMPR BULL 55

EMPR EXPL 1979-129; 1980-169; 1983-198

EMPR FIELDWORK 1988, pp. 61-74

GSC MAP 17-1968; 1386A

GSC OF 463

GSC P 68-50; 72-44

GCNL #202, #238, 1983; #90, 1984

Carson, D.J.T. (1968): Metallogenic Study of Vancouver Island With

Emphasis on the Relationships of Mineral Deposits to Plutonic

Rocks, Unpublished Ph.D. Thesis, Carleton University

**Date Coded:** 1985/07/24

**Coded By:** BC Geological Survey (BCGS)

**Field Check:** N

**Date Revised:** 2013/11/28

**Revised By:** Karl A. Flower(KAF)

**Field Check:** N

**Location/Identification**

MINFILE Number: 092F 049  
 Name(s): **RUTH**  
 BLACK BEAR MC  
 Status: Showing  
 Mining Division: Alberni  
 Electoral District: Alberni-Qualicum  
 Forest District: South Island Forest District  
 Regions: British Columbia, Vancouver Island  
 BCGS Map: 092F013  
 NTS Map: 092F03W  
 UTM Zone: 10 (NAD 83)  
 Latitude: 49 10 09 N  
 Northing: 5449051  
 Longitude: 125 24 25 W  
 Easting: 324554  
 Elevation: 180 metres  
 Location Accuracy: Within 1KM  
 Comments: Located 550 metres southeast of the Bear Group (Crown Grant Lots 293,294 and 300). The Bear Group is reported as occurring 800 metres west of Kennedy River (Minister of Mines Annual Report 1916).

**Mineral Occurrence**

Commodities: Silver, Copper  
 Minerals  
 Significant: Pyrite, Chalcopyrite  
 Associated: Quartz  
 Mineralization Age: Unknown  
 Deposit  
 Character: Vein  
 Classification: Hydrothermal, Epigenetic  
 Type: I06: Cu+/-Ag quartz veins  
 Dimension: 30x0x0 metres      Strike/Dip: 055/75S

**Host Rock**

Dominant Host Rock: Plutonic  
 Stratigraphic Age      Group      Formation      Igneous/Metamorphic/Other  
 Upper Triassic      Vancouver      Karmutsen      -----  
 Jurassic      -----      -----      Island Plutonic Suite  
 Isotopic Age      Dating Method      Material Dated  
 -----      -----      -----  
 -----      -----      -----  
 Lithology: Porphyry, Diabase, Limestone

**Geological Setting**

Tectonic Belt: Insular      Physiographic Area: Vancouver Island Ranges  
 Terrane: Plutonic Rocks, Wrangell

### Inventory

Ore Zone: VEIN Year: 1913  
Category: Assay/analysis Report On: N  
NI 43-101: N

Sample Type: Rock

Commodity	Grade
Silver	96.0000 grams per tonne
Copper	1.9000 per cent

Comments: Sample from vein also contained trace gold.

Reference: Minister of Mines Annual Report, 1913-279.

### Capsule Geology

The Ruth occurrence is located on the eastern side of the Kennedy River, across from Adit Creek.

Karmutsen Formation volcanics and Quatsino Formation limestones of the Upper Triassic Vancouver Group are intruded by the Early to Middle Jurassic Island Plutonic Suite consisting of granodiorite to quartz diorite. The Karmutsen rocks consist of andesitic to basaltic flows, tuffs and volcanoclastics. West-northwest trending fault/shear zones of Tertiary age cut the rocks.

A 0.5 metre wide quartz vein, exposed for 30 metres on surface, contains pyrite and chalcopyrite. The 55 degree striking, 75 degree southeast dipping vein occurs in porphyry. A small diabase dike accompanies the vein on the hanging wall and limestone outcrops within 3 metres. A sample assayed 1.9 per cent copper, 96 grams per tonne silver and trace gold (Minister of Mines Annual Report 1913).

The Black Bear claim was originally staked in the period around 1899 to 1902 and owned by T.O. MacKay. In 1938, the claims were sold to Kennedy Lake Gold Mines. In 1988, Golden Spinnaker Minerals completed a program of geological mapping, ground magnetic surveys and geochemical sampling. In 2009 and 2010, G4G Resources Limited completed a program of prospecting and remote sensing, consisting of spectral analysis and synthetic aperture radar analyses, on the area as the G4G property.

### Bibliography

EMPR AR \*1913-29; 1916-330  
EMPR ASS RPT 5112, 18693, 31904, 32332  
GSC MAP 17-1968; 1386A  
GSC OF 463  
GSC P 68-50; 72-44



**Location/Identification**

<b>MINFILE Number:</b>	092F 050	<b>Mining Division:</b>	Alberni
<b>Name(s):</b>	<u>BESSIE B</u>	<b>Electoral District:</b>	Alberni-Qualicum
<b>Status:</b>	Showing	<b>Forest District:</b>	South Island Forest District
<b>Regions:</b>	British Columbia, Vancouver Island	<b>UTM Zone:</b>	10 (NAD 83)
<b>BCGS Map:</b>	092F013	<b>Northing:</b>	5448613
<b>NTS Map:</b>	092F03W	<b>Easting:</b>	323730
<b>Latitude:</b>	49 09 54 N		
<b>Longitude:</b>	125 25 05 W		
<b>Elevation:</b>	50 metres		
<b>Location Accuracy:</b>	Within 1KM		
<b>Comments:</b>	Four kilometres from Kennedy Lake, 400 metres west of Kennedy River (Minister of Mines Annual Report 1913, page 278).		

**Mineral Occurrence**

<b>Commodities:</b>	Gold		
<b>Minerals</b>	<b>Significant:</b>	Pyrite	
	<b>Significant Comments:</b>	Mineralogy is unknown, pyrite is assumed.	
	<b>Associated:</b>	Quartz	
	<b>Mineralization Age:</b>	Unknown	
<b>Deposit</b>	<b>Character:</b>	Vein	
	<b>Classification:</b>	Hydrothermal, Epigenetic	
	<b>Comments:</b>	Veins dip steeply northwest.	

**Host Rock**

<b>Dominant Host Rock:</b>	Plutonic		
<b>Stratigraphic Age</b>	<b>Group</b>	<b>Formation</b>	<b>Igneous/Metamorphic/Other</b>
Upper Triassic	Vancouver	Karmutsen	-----
Jurassic	-----	-----	Island Plutonic Suite
<b>Isotopic Age</b>	<b>Dating Method</b>	<b>Material Dated</b>	
-----	-----	-----	
-----	-----	-	
<b>Lithology:</b>	Diabase, Porphyry		

**Geological Setting**

<b>Tectonic Belt:</b>	Insular	<b>Physiographic Area:</b>	Vancouver Island Ranges
<b>Terrane:</b>	Wrangell		

**Inventory**

No inventory data

### *Capsule Geology*

The Bessie B occurrence is located on the north side of Esther Creek, a tributary of the Kennedy River.

Karmutsen Formation volcanics of the Upper Triassic Vancouver Group are intruded by the Early to Middle Jurassic Island Plutonic Suite consisting of granodiorite to quartz diorite. The Karmutsen rocks consist of andesitic to basaltic flows, tuffs and volcanoclastics. West-northwest trending fault/shear zones of Tertiary age cut the rocks.

Steep north west dipping quartz veins, with gold values, occur in a diabase dike hosted in porphyry, with a 70 degree strike.

In 1987, J. Lampman completed a program of silt sampling on the area. One sample showed anomalous gold values from the Esther Creek drainage area. In 2009 and 2010, G4G Resources Limited completed a program of prospecting and remote sensing, consisting of spectral analysis and synthetic aperture radar analyses, on the area as the G4G property.

### *Bibliography*

- EMPR AR \*1913-278; 1916-329  
EMPR ASS RPT 16145, 31904, 32332  
EMPR BULL 55  
EMPR FIELDWORK 1988, pp. 61-74  
GSC MAP 17-1968; 1386A  
GSC OF 463  
GSC P 68-50; 72-44  
Carson, D.J.T. (1968): Metallogenic Study of Vancouver Island With  
Emphasis on the Relationships of Mineral Deposits to Plutonic  
Rocks, Unpublished Ph.D. Thesis, Carleton University



**Location/Identification**

MINFILE Number: 092F 047  
 Name(s): JO JO

Status: Showing  
 Mining Division: Alberni  
 Electoral District: Alberni-Qualicum  
 Forest District: South Island Forest District

Regions: British Columbia, Vancouver Island  
 BCGS Map: 092F013  
 NTS Map: 092F03W  
 UTM Zone: 10 (NAD 83)  
 Latitude: 49 09 47 N  
 Northing: 5448357  
 Longitude: 125 24 03 W  
 Easting: 324978  
 Elevation: 175 metres  
 Location Accuracy: Within 1KM  
 Comments: On the east side of Kennedy River between the Tommy K (092F 033) and Rose Marie (092F 032) occurrences (GSC Memoir 204). According to the Assessment Report 12739, Figure 2, the Jo Jo is located at Northing 5447100, Easting 323250.

**Mineral Occurrence**

Commodities: Copper, Zinc, Lead

Minerals  
 Significant: Pyrrhotite, Pyrite, Chalcopyrite, Sphalerite, Galena  
 Associated: Quartz

Mineralization Age: Unknown

Deposit  
 Character: Vein  
 Classification: Hydrothermal, Epigenetic  
 Type: I06: Cu+/-Ag quartz veins  
 Shape: Tabular

**Host Rock**

Dominant Host Rock: Volcanic

Stratigraphic Age	Group	Formation	Igneous/Metamorphic/Other
Upper Triassic	Vancouver	Karmutsen	-----
Jurassic	-----	-----	Island Plutonic Suite

Isotopic Age	Dating Method	Material Dated
-----	-----	-----
-----	-----	-

Lithology: Volcanic, Sediment/Sedimentary, Granodiorite  
 Comments: Vein occurs in volcanics, sediments and intrusives.

**Geological Setting**

Tectonic Belt: Insular  
 Physiographic Area: Vancouver Island Ranges  
 Terrane: Wrangell, Plutonic Rocks



## *Inventory*

No inventory data

## *Capsule Geology*

The Jo Jo occurrence is located on the eastern side of the Kennedy River, between Golden Gate and Canyon creeks.

Upper Triassic andesites and andesitic breccia and tuffs of the Kamutsen Formation, Vancouver Group are intruded by quartz diorite to granodiorite of the Early to Middle Jurassic Island Plutonic Suite and Tertiary dacitic dikes. The rocks are cut by northwest trending faults which typically show intense shearing and local sericitization, silicification and pyritization over widths of 0.5 to 2 metres.

A quartz vein, about 60 centimetres wide, strikes 040 degrees through volcanics, sediments and granodiorite; one report gives a 065 degree strike. The quartz is mineralized with pyrrhotite, pyrite, and lesser amounts of chalcopyrite, sphalerite, and traces of galena. The vein has been traced on surface for "several hundred feet". A sample across some of the best looking ore contained only small percentages of zinc and copper; gold and silver were absent (Minister of Mines Annual Report 1927). The vein shares some characteristics with the VRL-10 vein (092F 480).

In 1983 and 1984, Rich Lode Gold Corp. completed programs of geochemical sampling, prospecting and geological mapping on the area. In 1984 and 1985, Int. Phoenix Energy completed programs of geochemical sampling, geological mapping, trenching and ground magnetic and electromagnetic surveys. In 2009 and 2010, G4G Resources Limited completed a program of prospecting and remote sensing, consisting of spectral analysis and synthetic aperture radar analyses, on the area as the G4G property.

## *Bibliography*

EMPR AR \*1927-343  
EMPR ASS RPT 11940, 12047, 12767, 14279, 31904, 32332  
EMPR BULL \*1, p. 133; 55  
GSC MAP 17-1968; 1386A  
GSC MEM \*204, p. 28  
GSC OF 463  
GSC P 68-50, p. 38



**Location/Identification**

<b>MINFILE Number:</b>	092F 052	<b>Mining Division:</b>	Alberni
<b>Name(s):</b>	<u>GOLD QUEEN</u>	<b>Electoral District:</b>	Alberni-Qualicum
<b>Status:</b>	Showing	<b>Forest District:</b>	South Island Forest District
<b>Regions:</b>	British Columbia, Vancouver Island	<b>UTM Zone:</b>	10 (NAD 83)
<b>BCGS Map:</b>	092F013	<b>Northing:</b>	5450221
<b>NTS Map:</b>	092F03W	<b>Easting:</b>	324693
<b>Latitude:</b>	49 10 47 N		
<b>Longitude:</b>	125 24 20 W		
<b>Elevation:</b>	70 metres		
<b>Location Accuracy:</b>	Within 500M		
<b>Comments:</b>	Vein location, figure 4, Assessment Report 15935.		

**Mineral Occurrence**

<b>Commodities:</b>	Gold		
<b>Minerals</b>	<b>Significant:</b>	Pyrite	
	<b>Associated:</b>	Quartz	
	<b>Mineralization Age:</b>	Unknown	
<b>Deposit</b>	<b>Character:</b>	Vein	
	<b>Classification:</b>	Epigenetic, Hydrothermal	
	<b>Dimension:</b>	300x1x0 metres	
	<b>Comments:</b>	One-metre wide vein hosted in 300 metre shear zone.	

**Host Rock**

<b>Dominant Host Rock:</b>	Volcanic		
<b>Stratigraphic Age</b>	<b>Group</b>	<b>Formation</b>	<b>Igneous/Metamorphic/Other</b>
Upper Triassic	Vancouver	Karmutsen	-----
<b>Isotopic Age</b>	<b>Dating Method</b>	<b>Material Dated</b>	
-----	-----	-----	
<b>Lithology:</b>	Volcanic		

**Geological Setting**

<b>Tectonic Belt:</b>	Insular	<b>Physiographic Area:</b>	Vancouver Island Ranges
<b>Terrane:</b>	Wrangell		
<b>Metamorphic Type:</b>	Regional	<b>Relationship:</b>	Pre-mineralization
<b>Grade:</b>	Greenschist		

### *Inventory*

Ore Zone: SAMPLE Year: 1987  
Category: Assay/analysis Report On: N  
NI 43-101: N

Sample Type: Unknown

Commodity	Grade
Gold	48 grams per tonne

Comments: 1987, a value of 48 grams per tonne gold was reported

Reference: Assessment Report 15935

### *Capsule Geology*

The Gold Queen occurrence is located on the western side of the Kennedy River, approximately 400 metres south of Olympic Creek.

Karmutsen Formation volcanics of the Upper Triassic Vancouver Group are intruded by the Early to Middle Jurassic Island Intrusions consisting of granodiorite to quartz diorite. The Karmutsen rocks consist of andesitic to basaltic flows, tuffs and volcanoclastics. West-northwest trending fault/shear zones of Tertiary age cut the rocks.

A 300-metre shear zone contains a 1 metre wide quartz vein with pyrite within the volcanics. In 1987, a value of 48 grams per tonne gold was reported (Assessment Report 15935).

In 1987 and 1988, Nationwide Gold Mines and Golden Spinnaker Minerals optioned the property and completed programs of trenching, VLF-EM surveys and geochemical sampling. In 2009 and 2010, G4G Resources Limited completed a program of prospecting and remote sensing, consisting of spectral analysis and synthetic aperture radar analyses, on the area as the G4G property.

### *Bibliography*

EMPR AR \*1927-344  
EMPR ASS RPT \*15935, 31904, 32332  
GSC MAP 17-1968: 1386A  
GSC OF 463  
GSC P 68-50: 72-44  
Hudson, R. (1997): A Field Guide to Gold, Gemstone & Mineral Sites of  
British Columbia, Vol. 1: Vancouver Island, p. 143