## **RKG Exploration** British Columbia Properties for option

**Authors note:** information in Black is historical information collected prior to obtaining the mineral tenures and Red highlighted text indicates work completed by or under the supervision of Ken Galambos P. Eng.



## **Huckleberry Mine area**

Troitsa (porphyry copper-molybdenum-gold target) Huckleberry Mine area (256 cells - 4919ha)

- The Troitsa project is located roughly 18km southwest of the producing Huckleberry minesite which has produced 404.2 million kilograms of copper, 3.5 million kilograms molybdenum, 4.9 million grams gold and 93.2 million grams silver from 94.4 million tonnes of ore milled to the end of 2011. The property is 20km southwest of Goldreach Resources' Ootsa project including the Seel and Ox deposits (410.88 million tonnes of 0.31% CuEq and 52.6 million tonnes 0.32% CuEq respectively) and 32km south of Thompson Creek's Berg deposit (506 million tonnes grading 0.3% Cu, 0.037% Mo and 3.8ppm Ag).
- The claims cover three minfile showings, the Troitsa Lake, Troitsa Main and Cirque showings. Historical exploration on the Main zone trenches reported values of 1.02% Cu over a true width of 21.3m including 1.49% Cu over 12.2m. The Cirque showing averaged 0.21% Cu over 42.7m including 0.33% Cu over 16.8m. Limited sampling at the Lake showing reported values of 0.3% to 0.6% Cu from dyke and stockwork mineralization from an area 30m wide.
- Recent exploration includes property wide airborne Z-Tem and Magnetic surveys, 22.5 line-km of ground geophysics including IP and magnetic surveys, extensive prospecting and the core drilling of 3777.41m in 11 holes.
- Wide intervals of copper mineralization were intersected in most of the drilling with highlights from TR12-10 of 309.99m grading 0.176% Cu, including 4.4m of 0.408% Cu, 0.021% Mo, 8.844ppm Ag and 169.87m averaging 0.224% Cu, 0.003% Mo, including 25.18m grading 0.807% Cu, 0.001% Mo, 4.575ppm Ag.
- Drilling to date has successfully tested only the historical "Main Zone" trend and has identified significant copper mineralization over a strike length of roughly 500m. Only one of more than a dozen, large, coincident IP Chargeability/Resistivity anomalies identified from ground surveys has been tested. In some areas, groups of these targets merge at depth.
- Historical and newly discovered areas showing precious metals enrichment have yet to see any systematic exploration.

**Sylvia** (porphyry copper-molybdenum-gold target) Nadina Lake area (95 cells - 1755.54ha)

- The Berg project, 506 million tonnes grading 0.30% Cu, 0.037% Mo lies 17km to the west of the Property.
- Sylvia is located ~ 5km west of the Pam property
- On the Sylvia, a historical percussion hole assayed 0.33% Cu, 0.02% Mo/over entire 63m bedrock interval with values as high as 0.635% Cu, 0.132% Mo and 15ppm Ag over 3.05m.
- Historic mapping identified a copper zone on the inside edge of a 400-500m wide and 2km long crescent shaped pyrite halo.
- Twinning of S-8 with a diamond drill hole returned 0.19% Cu, 0.004% Mo and 1.8ppm Ag over 65m. Limited additional drilling revealed wide areas of highly anomalous Cu and included one intercept grading 790ppb Au/5m
- MMI Response Ratios from surveys completed in 2011, 100m east of S-8, returned Mo, Cu and W values of up to 144, 45 and 36 times background respectively over a width of at least 100m. A further 400m to the east MMI sampling returned Response Ratios of 6, 4 and 12 times background for the same elements. Humus sampling on the eastern line confirmed the MMI anomalies.
- Ah surveys completed in 2016 returned Response Ratios for Au of up to 185 x background with supporting

**Babine-Takla Lakes area** 



Babs (porphyry copper-molybdenum-gold target) Babine Lake area (72 cells - 1321.77ha)

- 165+ sub-angular mineralized Eocene biotite-feldspar-porphyry boulders over a 300m x 150m area. The boulders ranged in size from 10cm-1.5m and have assayed up to 1.05% Cu and 1.3g/t Au and contained 1-4% magnetite.
- Best drill results to date from the area of the boulder field is 0.2% Cu/85.6m in volcanics, targeting an IP chargeability high anomaly (pyrite halo).
- MMI Response Ratios to >100 x background Cu, >80 x background Au, >25 x background Ag and Ce in the area of and immediately up-ice of the boulder field. Roughly 1200m up-ice of the boulder field, a 1500m diameter circular MMI Cu-Au anomaly surrounds an 800m x 900m Mo anomaly. This sounds very similar to the former Granisle and Bell mines and the Morrison deposit in that each is an annular Cu-Au deposit with a Mo-rich and Cu/Au poor core.
- 8km long magnetic target identified to the north of the original Babs claims with associated historical B-horizon soils to 914ppm Cu and MMI Response Ratios of >10-25 x background Cu, Au, Ag, Zn and Ce.
- Search II airbourne survey identifies a subtle magnetic high anomaly in excess of 3000m over a previously recognized Biotite Feldspar porphyry dyke up-ice of the boulder field and cutting the northern parts of the circular MMI anomaly.
- BFP dyke has associated magnetic and IP chargeability anomalies from historical ground surveys.
- 2012 humus sampling program on Babs 1-3 target returned a multi-element anomaly over a 400m wide area with Response Ratios to background of up to 14 for Au, 9 for Ag, 5.8 for Cu, 5.9 for Mo, 17.7 for Fe, 11.4 for As and up to 420 x background for La, a REE often associated with porphyry deposits.
- Babs claims are consolidated under one owner in June, 2017
- 2017 Ah-humus sampling returned anomalous Ah-humus values over 200-900m widths over a 3km strike length. New boulders found immediately down-ice of the suspected trace of the BFP dyke, returned values to 0.5% Cu and 1.07g/t Au.
- A reinterpretation of the 2008 MMI survey has identified three annular Cu-Au-Mo anomalies with widths of up to 1600m.

Nat (porphyry copper-molybdenum-gold target) Babine Lake area (29 cells - 536.83ha)

- claims cover a mag low target similar to the Granisle Mine located 17km to the SSW of the claim group.
- Till sampling by Vic Levson (Bulletin 110) identified a till dispersal plume down-ice of the magnetic target. The anomaly returned values >98%tile Zn, Pb, Cd; 90%tile Cu, Ag, Hg, Fe and 70%tile As, Sb.
- 2012 Ah-humus sampling identified a 500m (and possibly 900m) wide multi-element anomaly with Response Ratios to background of up to 4.6 for Au, 6.7 for Mo, 3.5 for Ag, 3.4 for Cu, 4.7 for Fe, 16.8 for As and 23 x background for La.
- 2012 prospecting located mineralized float samples containing chalcopyrite in potassically altered biotite-feldspar-porphyry ~ 800m down-ice of the centre of the target. Results for two of the samples returned 2767ppm Cu, 0.106ppm Au and 3390ppm Cu, 0.224ppm Au.
- Follow up sampling in 2013 located very rough quartz scinter grading 0.863ppm Au and 61.5ppm Ag with anomalous arsenic and antimony in the same general area.
- Ah-humus sampling in 2016 and 2017 has identified anomalous Au values with Response Ratios to 164 x background over widths of up to 300m, to the east of the previously identified areas, over a strong magnetic high anomaly from the Search II

airborne survey. The Cu 1-3 Minfile showing was located and returned 939g/t Ag, > 20% Pb, 21.4% Zn 1305ppm Cu and >1000ppm Cd over 15cm.

**Bear Hill** (high-sulfidation epithermal silver/gold(?)/copper target) Takla lake area (4 cells - 73.55ha)

- Historical exploration identified Cu-Ag mineralization in Eocene volcanic rocks.
- Significant assays from the Main showing include 0.73% Cu, 117 g/t Ag and 5.4% Ba across 5m within a larger 15m intercept averaging 0.52% Cu, 77g/t Ag. This mineralization is exposed over a vertical distance of ~60m.
- The West showing assayed 0.28% Cu and 32 g/t Ag over 10m.
- Silver soil geochemical anomaly over a 3500m strike length and a 400m width at the Main zone.
- Later RGS sampling returned 190ppb Au draining the western side of the property.
- 2010 sampling returned 1.063% Cu and 182g/t Ag over 2m from the lower Main zone and 1.2% Cu and up to 389g/t Ag from grab samples at a new showing 200m south of the West zone.
- 2016 program of Ah- humus sampling has outlined the Cu/Ag zone for a strike length of 400m with widths to 175m. The survey also identified several previously unknown Au-in-soils anomalies with values as high as 179ppb that flank the Cu/Ag mineralization.
- Additional sampling in 2017 continued to find anomalous Ah-humus values up to 4100m from the main showing.

**Old Fort** (porphyry copper-molybdenum-gold target) Babine Lake area (20 cells - 370.36ha)

- Historical sampling returned 61m averaging 0.21% Cu and 0.04% MoS2 over entire length of the T3 trench.
- Trench lies ~ 1km to the west of the Newman Fault, which is associated with both the Bell and Granisle mines to the SE.
- Early geophysics identified IP chargeability anomalies and EM conductors to the east of the trench near the Newman Fault.
- 2010 sampling returned 0.14%Cu, 0.037% MoS2 and 0.152g/t Au over 55m with the most easterly sample assaying 0.2% Cu, 0.067% MoS2 and 0.32g/t Au over 5m.
- A 2013 Ah-humus sample line over the trenched area suggests mineralization carries on for at least a further 100m beyond the east end of the T3 trench towards the Newman fault.

**Rainbow** (stratabound volcanic redbed copper-silver target) north Takla lake area (9 cells - 164.35ha)

- Mineralization consists of stratabound bornite, chalcocite and chalcopyrite occur in and disseminated in amygdules in the volcanic rocks. Copper mineralization is also found in fractures and joint planes. In the floor of the basin, minor chalcopyrite has been found in some interbedded tuffs.
- Historical chip sampling of 2.1-2.4% Cu and 20-34g/t Ag over widths 9.45-10.7m over a down plunge distance of approximately 90m.
- Associated aeromagnetic anomaly and highly anomalous Cu RGS over 8km.
- No recent exploration.

## Vancouver Island



Vanhall/VMS (VMS copper, cobalt, gold target) Gold River area (17 cells - 344.67ha)

- The VMS claims area consists of a ridge exhibiting a 3000m long linear magnetic high anomaly that sits between two creeks spaced approximately 750m apart.
- RGS sampling of the unnamed northern creek returned 51ppb Au, 240ppm Cu, 48ppm Co, 8ppm Mo and 0.7ppm Ag. Sampling on Vanstone Creek immediate below the confluence with Harriet Creek returned 365ppb Au, 208ppm Cu, 55ppm Co, 8ppm Mo and 0.5ppm Ag.
- Glaciation in the area is believed to be from the north to the south.
- Numerous massive and semi massive sulphide boulders have been found in the creeks south of the claim group. These boulders have assayed up to 43.6g/t Au, 85.6g/t Ag, 11.44% Cu and 0.14% Zn (PF-2); Subsequent programs located similar boulders from 10-60cm thick and assaying up to 3.8% Cu, 2.5g/t Au, 61.7g/t Ag, 1387ppm Co, 0.1637ppm Ni, 0.1954ppm Zn and 136ppb Pd in surrounding creeks.
- Numerous minfile showings in the area report pyrite, pyrrhotite, magnetite, chalcopyrite and sphalerite as disseminated, in lenses, veins, narrow veins, fine cross-cutting fractures, and in zones of strongly fractured and altered volcanic rocks with strike lengths over 350m. Values from bedrock sampling range up to 47% Fe, 0.9% Cu, 0.2% Zn, 0.02% Pb, 3.4g/t Au and 3.4g/t Ag.
- A number of soil geochemical surveys have identified numerous large multi-element anomalies in the drainage with copper to 844 ppm, cobalt to 594 ppm, gold to 284 ppb, molybdenum to 21 ppm, iron to 14.81% and manganese to 30487ppm.
- Prospecting in 2018 identified very angular float boulders in glacial till approximately 600m down-ice from an airborne magnetic high anomaly thought to be the source for the anomalous RGS samples collected on Vanstone and Harriet Creeks. The boulders assayed up to 3.165% Cu, 1.58ppm Au, 93ppm Ag, 0.15% Zn and 0.029% Co.
- Sampling of bedrock near the centre of the magnetic anomaly returned 1.395ppm Au from andesite with pyrite veining.

**Lassie** (VMS copper/gold/cobalt, Skarn Cu/Au, High sulphidation epithermal Au targets) Port Renfrew area (19 cells - 405.66ha)

- There are rumours of Spanish exploitation of gold in the area of the claims.
- Many of the samples are described as pods of sulphides in mafic (and pillowed) volcanics suggesting that a precious metal rich VMS target may also be present in the area. Results of 13.9% Fe, 637.5ppm Cu, 305.7ppm Co, >10000ppm Zn, 137.5ppb Au, 453.9ppm Cd supports this target model.
- Semi-massive magnetite chalcopyrite returned values of >1% Cu, 0.2-0.4% Zn and 36-46g/t Ag demonstrates the skarn potential of the area to the northeast. Airborne geophysical surveys have identified magnetically anomalous areas over a strike length of at least 4km with widths in excess of 2km over this same area.
- Narrow sub-vertical shears host milky-white to weakly recrystallized quartz veins with boudinage texture and associated pyrite, chalcopyrite and up to 5% sphalerite returned values generally >1% Zn, 0.03%-0.2% Cu and strongly anomalous Au values greater than 100ppb. A number of samples assayed over 1g/t Au and up to 11.8g/t Au. Strongly sulphidized, en echelon shears hosting up to 15% fine pyrite and arsenopyrite material returned values between 0.86g/t and 2.69g/t Au with anomalous Cu, Zn and Pb. along with high values of >100ppm Ag demonstrate the grade potential of the area.

## Coast area



Dani (VMS zinc, lead, silver copper, gold target) Hawkesbury Island (13 cells - 249.47ha)

- The Dani occurrence consists of a blasted bedrock (quartz-sericite schist) showing of large angular boulders exhibiting banded semi-massive and massive sulphide mineralization that assayed as high as 10.2% Zn, 5.7% Pb, 1.6% Cu, 203g/t Ag and 1.26g/t Au. The log landing is partially built from these VMS boulders.
- It is one of two areas identified by Dani Aldrich (BCGS) as having the best potential to host a VMS deposit in the Ecstall volcanic belt.
- The area is well situated with logging road access from a deep water barge landing. The Dani showing is located at the end of a 5.1km all-weather road.
- Sampling in 2011 returned values up to 13.04% Zn, 0.967% Pb, 0.869% Cu, >100ppm Ag and 1517ppb Au from grab samples of blasted bedrock and 0.4027% Cu and 0.12g/t Au/3m from stringer mineralization in a borrow pit at the end of the road. This stringer mineralization remains open in all directions.

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