



Occurrence Details

Occurrence Number: 1150 066

Occurrence Name: Lloyd

Occurrence Type: Hard-rock

Status: Prospect

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General Information

Secondary Commodities: copper, gold, lead

Deposit Type(s): Vein Au-Quartz

Location(s): 63°49'39" N - -138°51'58" W

NTS Mapsheet(s): 115015

Location Comments: .5 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

This area was extensively staked about 1904 and was intensely prospected with trenches and shallow shafts between 1905 and 1909. The two main properties were the Cousin, Jack, etc cl (6975), staked in Aug/04 by J. Lloyd and the Green Gulch group of Jane S. Orrell. Other active prospectors included M.R. Knorr, S. Thurber, and Agnes J. Kinsey. Lloyd sank 10 shafts averaging about 10 m deep and drove a 21 m x-cut prior to 1912, when MacLean visited the property. The Green Gulch group, to the northwest, was explored with 15 m shaft on the Tiger claim and an 8 m open-cut and 23 m cross cut on the Yellow Jacket cl (7784). A limited amount of bulldozer trenching has been carried out near the shafts on the Cousin Jack claim.

D. Morgan restaked the Green Gulch group as Doc cl 1-4 (YA49648) in Feb/80 and performed some stripping in 1992 and 1993. The other workings were restaked as Kloyd cl 1-16 (YA65791) in Jun/83 by Dawson Eldorado Gold Explorations Ltd, which performed mapping and geochem sampling later in the year, and as Kin cl 1-82 (YA89470) in Sep/87 by United Keno Hill Mines Ltd, which explored with mapping and geochem sampling in 1987-88 and trenching in 1989.

Morgan trenched in 1986-90 and Auger Mining tied on the Auger cl1-10 (YB5718) to the southeast in Jun/88. The Auger claims were transferred in Apr/89 to D. Smith, who performed geochem sampling later that year.

During 1996, Barramundi Gold Inc carried out a regional silt sampling, mapping, prospecting, and rock sampling program over part of the Klondike region, including this occurrence. In Mar/99 Barramundi completed 3 850 line km of detailed airborne magnetometer and VLF-EM surveying that covered a 16 x 24 km area centered about King Solomon Dome and included this occurrence.

Capsule Geology

Several mineralized quartz veins cut the hanging wall and footwall of a shallow southwest-dipping thrust fault that places chlorite and chlorite-quartz schist of the Permian Klondike Schist Assemblage (unit Psc) on top of a muscovite quartzite and minor muscovite-quartz schist (unit Psq). These rocks are part of the Yukon Tanana Terrane.

Mineralization found to date on the property consists of a single quartz vein that strikes about 120 and dips steeply to the northeast. The vein can be traced continuously in shafts and bulldozer trenches for at least 250 m. Over this interval, the vein varies in thickness from about 0.8 to 1.5 m. It consists mainly of white quartz, commonly with small vuggy cavities. Pyrite is present throughout the quartz as cubes and grain aggregates to 2 cm in diameter. The pyrite locally makes up as much as 2% of the vein material but is usually much less abundant. MacLean (1914) reported that traces of galena and free gold are also present. Angular fragments of wallrock are abundant within the vein and narrow zones of brecciated and sheared quartz are also locally present. Mortensen et al. obtained an average homogenization temperature of 310 C and salinity of about 4.3 wt-% NaCl equivalent from mesothermal veins of this type in the Klondike area.

Similar mineralization also occurs in material on the waste dump of a shallow shaft about 500 m south-southeast of the junction of the Caribou Creek road and ridge road. This shaft is well south of the projected trace of the vein described above and must be from a separate vein.

Gold-bearing quartz veins are also present in caved shafts and trenches on the Old Yellow Jacket and Tiger claims northwest of the Kloyd (presently included in the Doc group). This mineralization consists of quartz veins with scattered pyrite and traces of chalcopyrite, galena and free gold. One vein that is exposed on the Tiger claim strikes 136 degrees and dips steeply southwest. MacLean (1914) reported that of six samples from these veins, all but one contained gold, with the highest assay being 20.9 g/t Au and 6.9 g/t Ag from 0.5 m channel sample across a vein on the Yellow Jacket claim.

The mineralization on the Doc group is generally on strike with the main vein on the Kloyd property and is about 2 km from it. This suggests that the potential exists for a semi-continuous vein system at least 2.5 km in length and of unknown width.

On the Auger claims, a silicified andesite dyke and two clay-altered rhyolite dykes cut quartz-biotite-chlorite schist. Soil samples returned up to 80 ppb Au and 80 ppm As.

Barramundi's 1996 regional silt program returned several anomalous gold results in basins located south of Minfile Occurrence #1150 066. The best silt sample returned 20 ppb Au draining off towards the north-northwest in the Caribou Creek drainage basin.

References

ARCHER, CATHRO AND ASSOCIATES (1981) LTD., 1984. Assessment Report #091562 by J.K. Mortensen.

AUGER MINING CORP., Dec/89. Assessment Report #092791 by R.A. Doherty.

BARRAMUNDI GOLD LTD, Aug/97. Assessment Report #093711 by R. Stevens.

BARRAMUNDI GOLD LTD, May/99. Assessment Report #094021 by W.A. Sears.

GEOLOGICAL SURVEY OF CANADA, Summary Report 1911, p. 39.

MACLEAN, T.A., 1914. Lode Mining in Yukon. Mines Branch Publication 222, p. 76-82.

MORTENSEN, J.K., NESBITT, B.E., and RUSHTON, R., 1992. Preliminary observations on the geology and geochemistry of quartz veins in the Klondike District, West Central Yukon. In: Yukon Geology Vol. 3, Exploration and Geological Services Division, DIAND, p. 260-270.

MORTENSEN, J.K., Geological Compilation Maps of the Northern Stewart River map area Klondike and Sixtymile Districts (115N/15,16; 115O/13,14 and parts of 115O/15,16). Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open file 1996-1 (G).

RUSHTON, R.W., ET AL., 1993. A fluid inclusion and stable isotope study of Au quartz-veins in the Klondike District, Yukon Territory, Canada; a section through a mesothermal vein system. Economic Geology and the Bulletin of the Society of Economic Geologists, Vol.88, p. 647-678.

UNITED KENO HILL MINES LTD., 1988. Assessment Report #092743 by A.J. McFaul.

UNITED KENO HILL MINES LTD., 1989. Assessment Report #092600 by A.J. McFaul.

YUKON EXPLORATION 1989, p. 126.

YUKON EXPLORATION AND GEOLOGY 1983, p. 262-3; 1984, p. 210-211.

Work History

Date	Work Type	Comment
12/31/1999	Airborne Geophysics	Also VLF-EM survey.
12/31/1996	Geochemistry	Also rock sampling. Barramundi Gold Inc carried out a regional sampling program over part of the Klondike region, including this occurrence.
12/31/1989	Trenching	
12/31/1988	Geochemistry	
12/31/1988	Geology	
12/31/1987	Geology	
12/31/1987	Geochemistry	
12/31/1986	Trenching	
12/31/1983	Geology	
12/31/1983	Geochemistry	
12/31/1912	Development, Underground	Sank 11 shafts and drove 2 cross-cuts on the claims.
12/31/1909	Trenching	Work carried out between 1905 and 1909.
12/31/1909	Development, Underground	Work carried out between 1905 and 1909.

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
096818	2014	Prospecting Report on the Dominion Project	Rock - Geochemistry, Prospecting - Other		
096879	2014	Ground Magnetics, Orthophoto and Prospecting Report on the Dominion Project	Orthophoto - Airphotography, Magnetics - Ground Geophysics, Prospecting - Other		
094783	2006	Geological Mapping, Trenching, Rock, and Soil Geochemical Sampling on the Dominion Property	Soil - Geochemistry, Bedrock Mapping - Geology, Backhoe - Trenching		
094021	1999	Detailed Airborne Magnetics and VLF-EM over the Klondike District, Dawson City - 1999	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics		
092743	1988	Geological Mapping and Trenching of the 1987 Soil Geochemical Anomalies on the Mackay, Dominion, Hunker, Dome, and King Solomon Dome Grids	Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Mechanical - Trenching		
092600	1987	Geological and Geochemical Exploration of the Mackay, Dominion, King Solomon Dome, Hunker Dome, Lombard, Lloyd, Lloyd II, Lloyd III, Green Gulch, and Dominion Mountain Grids - Hunker Summit Area	Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other, Mechanical - Trenching		
091634	1984	Report on the 1984 Exploration Program in Klondike Gold Fields	Electromagnetic - Airborne Geophysics, Percussion - Drilling, Drill Cuttings - Geochemistry, EM - Ground Geophysics	95	6900.67
091562	1983	Assessment Report on Kloyd 1-16 Claims	Soil - Geochemistry, Regional Bedrock Mapping - Geology		
060149	1972	Geological and Geochemical Report Yukon Quartz Mineral Claims	Silt - Geochemistry, Soil - Geochemistry		

Related References

Number	Title	Page(s)	Reference Type	Document Type
BROCK000140	Report on the Etzel mineral property for Pearl Resources Ltd. - Whitehorse mining district		Property File Collection	Report