



Occurrence Details

Occurrence Number: 116C 166
Occurrence Name: Little Gold
Occurrence Type: Hard-rock
Status: Prospect
Date printed: 12/16/2025 6:49:13 PM

General Information

Secondary Commodities: copper, gold, lead
Deposit Type(s): Vein Au-Quartz
Location(s): 64°3'4" N - 140°49'51" W
NTS Mapsheet(s): 116C02
Location Comments: .5 Kilometres
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

Glasmacher (1984) reported quartz veins containing anomalous gold from two locations on Little Gold Creek. The downstream location (166A) was staked as part of a group of 8 Big Gold cl (YA87986) in Aug/87 by D. Downes. Downes added more claims and performed bulldozer trenching in 1988. In Jun/94 the upstream location (166B) was staked as Mallard cl 1-2 (YB48795) by P. Hayduck. In Oct/94 Hayduck staked Mallard 3-4 (YB52732) on Hungry Gulch 5 km to the northeast. The downstream location was restaked by A. Downes as Mac cl 1-10 (YB54274) in Sept/95. Dredge Master Gold Ltd (T. Turner) staked Mac cl 11-28 (YB88253) in Aug/96 to surround the original Mac claims on three sides. Dredge Master's claims subsequently lapsed and were restaked as Bud cl 13-24 (YC07234) by M. McDougall in Jun/98 and as Mac cl 11-21 (YC12533) in Sep/98 by A. Downes. Teck Corporation staked Glacier cl 1-18 (YC07626) in Jul/98 and Glacier cl 19-26 (YC12170) in Aug/98 immediately to the south of the Bud and Mac claims and carried out prospecting, geochemical sampling and geological mapping in 1999. Kennecott Canada Exploration Inc optioned the Mac, and Bud claims from their respective owners in 1999 and carried out prospecting, geochemical sampling and airborne geophysical surveying before dropping the options the following year.

Capsule Geology

The area is underlain by Devonian to Mississippian aged Nasina Assemblage graphitic and non-graphitic quartzite, micaceous phyllite, chlorite schist and minor marble of the Yukon Tanana Terrane. Late Cretaceous andesite flows and hypabyssal sills underly the northwest corner of the Mac claims. Further to the east, Late Tertiary volcanic rocks consisting of pyroclastic tuffs and breccias interbedded with silty sediments are overlain by an olivine alkali basalt flow. Glasmacher and Friedrich (1992) described mesothermal quartz-carbonate-sulphide veins which cut metamorphic rocks in this area. The veins are lenticular, up to 50 cm thick and strike north-northeast. Glasmacher's studies indicate two stages of vein formation. Weakly anomalous gold values are associated with arsenopyrite deposited from high temperature (320-350°C) saline fluids (12.8 wt% NaCl equivalent) of the first stage. Base metal sulphides were deposited during the second stage. Kennecott's work in 1999 failed to produce any encouraging results and outcrop examined on the Mac claims showed restricted alteration and little mineralization other than pyrite. A magnetic low located at the northwest end of the Mac claims was considered to be of interest, but was not followed up due to deep overburden in the area. Teck's work on the Glacier claims revealed small centimetre scale quartz veins and veinlets containing small amounts of galena, chalcopyrite and traces of malachite and pyrite cutting the metasedimentary rocks. Sampling of old trenches in the area returned elevated precious and base metal values with up to 800 ppb Au, 445.4 ppm Ag, 9 436 ppm Pb, 3 566 ppm Cu and 445 Sb. The samples, hosted in quartz-muscovite schist, consisted of quartz veinlets with rusty blebs, chalcopyrite, galena, trace pyrite and malachite with rusty iron oxide and manganese altered fracture surfaces.

Work History		
Date	Work Type	Comment
12/31/1999	Geology	
12/31/1999	Geochemistry	
12/31/1999	Airborne Geophysics	Also magnetic and radiometric surveys.
12/31/1999	Other	
12/31/1988	Trenching	Work carried out on downstream occurrence.
12/13/1998	Ground Geophysics	Part of regional program.

Assessment Reports that overlap occurrence					
Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
096208	2010	SIXTY MILE Property-2010 Geological, Geochemical, Geophysical and Auger, RAB and Diamond Drilling	Gamma-Ray Spectrometry - Airborne Geophysics, Magnetic - Airborne Geophysics, Auger - Drilling, Diamond - Drilling, Rotary - Drilling, Drill Core - Geochemistry, Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Mechanical - Trenching	443	7289.37
10000	1000	Report on the 1999 Geological, Geochemical and Geophysical Work	Gamma-Ray Spectrometry - Airborne Geophysics, Magnetic - Airborne Geophysics, Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Detailed Bedrock		

027000	1977	on the SIXTY MILE Property	Mapping - Geology, Gravity Survey - Ground Geophysics, Petrographic - Lab Work/Physical Studies, Prospecting - Other, Mechanical - Trenching		
094030	1999	1999 Geological, Geochemical, and Geophysical Investigation of the MAC and BIG GOLD Claims	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Prospecting - Other, Process/Interpret - Pre-existing Data		
061130	1969	Report on the 1969 Exploration Program in the Sixtymile River Area, Yukon Territory	Diamond - Drilling, Drill Core - Geochemistry, Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Mechanical - Trenching	8	431.59
060840	1969	Summary Report for the Connaught Mines Ltd.-Sixty Mile Area, Yukon	Cursory Property Visit - Other, Data Compilation - Pre-existing Data		

Related References

Number	Title	Page(s)	Reference Type	Document Type
1992Geol Vol3_16	Volcanic-hosted epithermal gold-sulphide mineralization and associated enrichment processes, Sixtymile River area, Yukon Territory, Canada	271-291	Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report Paper