



Occurrence Details

Occurrence Number: 1150 080
Occurrence Name: Hilker
Occurrence Type: Hard-rock
Status: Unknown
Date printed: 6/15/2025 10:33:26 AM

General Information

Deposit Type(s): Unknown
Location(s): 63°59'17" N - -139°22'47" W
NTS Mapsheet(s): 115014
Location Comments: 1 Kilometres
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

Staked as Nug cl (Y65405) in May/72 by Sullivan and Rogers and optioned by a joint venture between Anglo American and Exploram, who performed a magnetic survey and mapping in 1973-74. Restaked as Dawson & 83 cl (YA79281) in Sep/83 by Perron Gold Corp and Texoro Res L, which explored with geochem and airborne EM surveys in 1983 and mag and VLF-EM surveys in 1986.

In fall, 1990, a joint venture consisting of Ebony Gold and Klondike Reef Mines conducted IP and resistivity surveys on the Dawson 9-12 and Ebony 21-22 claims. The Dawson 1-140 and 201-248 claims were transferred to Kennecott Canada Inc in May/93 as part of an option agreement. Kennecott carried out geological mapping on the Dawson claims in 1993 and re-processed helicopter geophysical data previously flown over the claims. In 1994 Kennecott explored airborne magnetic anomalies with ground magnetic surveys, followed by auger soil sampling. In Jan/95 Kennecott dropped its option. In the same month, the Sury claims were transferred to Sultan Minerals Inc. In Jan/96 Arbor Resources changed its name to Klondike Gold Corp.

Capsule Geology

The area is mainly underlain by quartz and feldspar augen-bearing quartz-muscovite schist of the Permian Klondike Schist Assemblage (unit Psa), cut by pyritic porphyry dykes and narrow quartz veins. The augen schist is interpreted to be a felsic metaporphry, and narrow discontinuous bands of carbonaceous and rusty weathering felsic schist within this unit are thought to represent deformed pendants and screens within the intrusive body.

The 1990 geophysical survey tested IP and resistivity responses in an area of known placer potential.

Soil geochemistry conducted in 1993 by Kennecott Canada Inc showed that the area of the Sury and Dawson claims was anomalous in base and precious metals. Re-processing of previous geophysical data outlined a strong magnetic high in the Sourdough Gulch area. Ground magnetic surveys associated the anomaly with a previously unmapped, magnetite-bearing hornblende-biotite granodiorite intrusion. Prospecting and mapping indicated the presence of pyritic, hornfelsed schists around the intrusion. The hornfels are cut by a diverse suite of mafic and felsic dykes emanating from the intrusion. Rock samples from the hornfels returned weakly anomalous Au values. The best assay was 0.68 g/t Au from a quartz-pyrite stringer. Kennecott drilled a total of 215 auger holes (1 m in depth) over the magnetic anomaly and identified a discontinuous +10 ppb Au anomaly on the southern flank. Three trenches over the soil anomaly produced intermittent quartz-veined quartz muscovite schist. One sample of schist returned a weakly anomalous assay of 85 ppb Au. A fourth trench across the centre of the magnetic anomaly exposed deeply weathered, barren granodiorite.

At the 77 Pup area located 1.5 km north of Sourdough Gulch, Kennecott outlined two small airborne magnetic anomalies. Ground magnetic surveys further delineated the anomalies.

Prospecting and mapping identified several northeasterly striking magnetite-bearing feldspar-hornblende-biotite porphyry dykes in the area. Fifty three auger soil samples collected over the anomaly were barren.

References

ARBOR RESOURCES LTD, STANDARD GOLD MINES LTD and GALLANT GOLD MINES LTD, Nov/87. Assessment Report *#091981 by Z. Dvorak.

DEBICKI, R.L., 1984. Bedrock geology and mineralization of the Klondike area (west), 115 O/14, 15 and 116B 2,3. Exploration and Geological Services Division, DIAND, Open File.

GEORGE CROSS NEWSLETTER, 30 Aug/94; 10 Nov/94; 23 Jan/96.

KENNECOTT CANADA INC, Jun/94. Assessment Report #093209 by R. Cranswick and A. Doyle.

KENNECOTT CANADA INC, Jul/95. Assessment Report #093321 by R. Cranswick, S. de Wit and A. Vary.

KLONDIKE REEF MINES LTD, 1991. Assessment Report #092972 by D.G. Mark.

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).

YUKON EXPLORATION 1987, p. 296-299.

YUKON EXPLORATION & GEOLOGY 1994, p. 9, 11, 12.

Work History

Date	Work Type	Comment
12/31/1990	Ground Geophysics	Also resistivity survey. Work was done on the Dawson 9-12 and the Ebony 21-22 claims.
12/31/1986	Ground Geophysics	Also VLF-EM survey.

12/31/1983	Airborne Geophysics	
12/31/1983	Other	
12/31/1973	Geology	
12/31/1973	Ground Geophysics	
12/13/1994	Geochemistry	
12/13/1994	Ground Geophysics	
12/13/1993	Geology	
12/13/1993	Airborne Geophysics	Reprocessed previous airborne survey data.

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
093321	1994	1994 Annual Report on the Klondike Gold Project	Magnetic - Airborne Geophysics, Rock - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Magnetics - Ground Geophysics, Prospecting - Other, Backhoe - Trenching		
093209	1993	1993 Prospecting, Rock and Soil Sampling, Geological Mapping and Reprocessing of Helicopter Geophysics on the SURY and DAWSON WEST Properties	Rock - Geochemistry, Soil - Geochemistry, Prospecting - Other, Process/Interpret - Pre-existing Data		
092690	1988	Geological, Geophysical, Geochemical, and Trench Report for Work Performed by Mark Management Ltd. on the REEF Grid	All Weather Road - Development, Surface, Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Magnetics - Ground Geophysics, Line Cutting - Other, Mechanical - Trenching		
091757	1987	Geological, Geochemical and Diamond Drill Report for Work Performed by Mark Management Ltd. on the Dawson Property	Diamond - Drilling, Drill Core - Geochemistry, Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other, Mechanical - Trenching	27	3151
091981	1987	Report on Combined Helicopter Borne Electromagnetic, Magnetic, and VLF-EM Survey	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics		
091807	1985	Geological, Geochemical and Geophysical Report for Work performed by Mark Management on the Dawson Property	Rock - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, EM - Ground Geophysics, Magnetics - Ground Geophysics, Heavy Mineral Concentrate - Lab Work/Physical Studies, Petrographic - Lab Work/Physical Studies, Mechanical - Trenching		
091616	1984	Geological, Geochemical and Geophysical Report for Work Performed by Mark Management Ltd. on the Dawson Property	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Heavy Mineral Concentrate - Lab Work/Physical Studies, Mechanical - Trenching		
091546	1983	Regional Geochemical and Geophysical Report on the Syndicate, Dawson, William, 83, 98, Wild, and Wild Card Claims	Magnetic - Airborne Geophysics, Bedrock Mapping - Geology, EM - Ground Geophysics, Heavy Mineral Concentrate - Lab Work/Physical Studies, Data Compilation - Pre-existing Data		
060149	1972	Geological and Geochemical Report Yukon Quartz Mineral Claims	Silt - Geochemistry, Soil - Geochemistry		