

### **Occurrence Details**

Occurrence Number: 116B 081 Occurrence Name: Hattie Occurrence Type: Hard-rock

Status: Unknown

Date printed: 4/29/2025 7:13:41 AM

# **General Information**

Secondary Commodities: copper, gold

Aliases: Morning Star

Deposit Type(s): Vein Au-Quartz Location(s): 64°1'29" N - -139°7'15" W

NTS Mapsheet(s): 116803 Location Comments: .5 Kilometres Hand Samples Available: No Last Reviewed:

#### Capsule

#### Work History

Staked as Morning Star (4168) in Aug/01 by W.O. Smith, who drove a 7.3 m adit and did considerable trenching until 1909. On nearby claims staked at the same time, C.R. Leake sank a 4.6 m shaft in 1903 on the Fourth of July cl (2038), H.F. Lerwill trenched on the Leroy cl (1805), and an open-cut was put in on the California Girl claims. The workings were restaked as Hun cl (YA79929) in Aug/84 by a joint venture between United Keno Hill ML and Falconbridge L. 8783 Yukon Ltd restaked as the Omega (YB30408), Jap (YB30377) and HMS claims (YB30485) in Dec/90. The HMS claims were transferred to Arbor Res Inc in Feb/92, which explored with trenching and stripping later in the year.

In May/91, W. Hawkes and D. Johnson made an unsuccessful attempt to restake the Jap claims as HJ (YB39964). Merced Inc sampled the property and conducted limited geophysical surveys in 1991. A.J. McFaull restaked as 19 Melinda cl (YB40909) in Jun and Sep/92 and trenched on the Melinda 5 claim. Kennecott Canada Inc optioned the HMS cl in May/93 and conducted trenching, geochemical sampling, and geological mapping on the HMS claims in Jun/93. In Sep/93 Kennecott carried out a detailed examination of the sedimentology, stratigraphy and depositional history of the high bench gravels on Australian Hill. This study covered claims held by Arbor and by McFaull. In March/94 Kennecott terminated the option agreement on the HMS claims. In Jan/96 Arbor Resources changed its name to Klondike Gold Corp

#### Capsule Geology

The property is partially underlain by quartz-sericite schist (Permian) with minor quartz veins and lenses, covered by about 80 m of Pliocene White Channel Gravel. The uppermost 1.5 m of the schist and the lowermost 3.5 m of White Channel Gravel have undergone strong hydrothermal alteration. Poorly exposed fault zones filled with black graphitic gouge strike eastwest. Placer mining operations have recovered topaz, tourmaline, fluorite and cinnabar, probably derived from a large Eocene quartz-feldspar porphyry which outcrops east of the property.

The Morning Star showing consists of quartz veins which were reported by the owner to contain malachite and free gold and to assay about 34.2 g/t Au and up to 20% Cu. This was never confirmed by an independent examination. Merced panned fine gold from weathered bedrock, but assays were negative.

In 1993 Kennecott examined the quartz-feldspar porphyry that outcrops on the property. Gold assays from rock and soil samples were low and there appeared to be little alteration present in the porphyry. Kennecott's Sep/93 work on Australian Hill was aimed at determining whether the high bench gravels could be mined using bulk tonnage methods. Kennecott determined that the gold is not homogeneously distributed through the Australian Hill White Channel Gravel deposit, but occurs primarily at its base. A bulk tonnage target was therefore untenable. Kennecott also determined that the overlying Klondike Gravel deposit on Australian Hill contains minor amounts of gold and likely originated outside of the Klondike district.

#### References

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 ${\tt KENNECOTT\ CANADA\ INC.,\ Mar/94.\ Assessment\ Report\ \#093183\ by\ R.\ Cranswick\ and\ A.\ Doyle.}$ 

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 ${\sf MACLEAN,\,T.A.,\,1914.\,\,Lode\,\,mining\,\,in\,\,Yukon.\,\,Mines\,\,Branch\,\,Publication\,\,222,\,\,p.\,\,\,124-125.}$ 

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## **Work History**

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12/31/1993	Geology	
12/31/1993	Trenching	
12/31/1993	Other	
12/31/1992	Trenching	McFaull on the Melinda 5 claim. Arbour on the HMS claims.
12/31/1901	Trenching	
12/31/1901	Other	Drove adit.

# **Assessment Reports that overlap occurrence**

Worktypes  Detailed Bedrock Mapping - Geology  Rock - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology Prospecting - Other Machanical - Trenching	Holes Drilled	Meters Drilled
Rock - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping		
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All Weather Road - Development, Surface, Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Magnetics - Ground Geophysics, Line Cutting - Other, Mechanical - Trenching		
Rehabilitation - Development, Underground, Soil - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics		
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		
Magnetic - Airborne Geophysics, Bedrock Mapping - Geology, EM - Ground Geophysics, Heavy Mineral Concentrate - Lab Work/Physical Studies, Data Compilation - Pre-existing Data		
Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Gamma-ray Spectrometry - Ground Geophysics, Heavy Mineral Concentrate - Lab Work/Physical Studies, Line Cutting - Other, Prospecting - Other		
Auger - Drilling, Drill Core - Geochemistry, Drill Cuttings - Geochemistry, Soil - Geochemistry, Mechanical - Trenching	9	415.40
Rock - Geochemistry, Soil - Geochemistry, Water - Geochemistry, Bedrock Mapping - Geology, Gamma-ray Spectrometry - Ground Geophysics, Line Cutting - Other, Prospecting - Other, Hand - Trenching, Mechanical - Trenching		
R E C P N C S R E C C P R E C P R E C C P R E C P R	Geochemistry, Bedrock Mapping - Geology, Magnetics - Ground Geophysics, Line Cutting - Other, Mechanical - Trenching  Rehabilitation - Development, Underground, Soil - Geochemistry, Gedrock Mapping - Geology, EM - Ground Geophysics  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 Magnetic - Airborne Geophysics, Bedrock Mapping - Geology, EM - Ground Geophysics, Heavy Mineral Concentrate - Lab Work/Physical Studies, Data Compilation - Pre-existing Data  Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Gamma-ray Spectrometry - Ground Geophysics, Heavy Mineral Concentrate - Lab Work/Physical Studies, Line Cutting - Other, Prospecting - Other  Rock - Geochemistry, Soil - Geochemistry, Drill Cuttings - Geochemistry, Soil - Geochemistry, Water - Geochemistry, Sedrock Mapping - Geology, Gamma-ray Spectrometry - Ground Geophysics, Line Cutting - Other, Prospecting - Other, Hand -	All Weather Road - Development, Surface, Rock - Geochemistry, Soil Geochemistry, Bedrock Mapping - Geology, Magnetics - Ground Geophysics, Line Cutting - Other, Mechanical - Trenching  Rehabilitation - Development, Underground, Soil - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics  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  Magnetic - Airborne Geophysics, Bedrock Mapping - Geology, EM - Ground Geophysics, Heavy Mineral Concentrate - Lab Work/Physical Studies, Data Compilation - Pre-existing Data  Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Gamma-ray Spectrometry - Ground Geophysics, Heavy Mineral Concentrate - Lab Work/Physical Studies, Line Cutting - Dther, Prospecting - Other  Auger - Drilling, Drill Core - Geochemistry, Mechanical - Trenching  Rock - Geochemistry, Soil - Geochemistry, Mechanical - Trenching  Rock - Geochemistry, Soil - Geochemistry, Mechanical - Trenching  Rock - Geochemistry, Soil - Geochemistry, Mechanical - Trenching  Rock - Geochemistry, Soil - Geochemistry, Mechanical - Trenching  Rock - Geochemistry, Soil - Geochemistry, Mechanical - Trenching  Rock - Geochemistry, Soil - Geochemistry, Mechanical - Trenching  Rock - Geochemistry, Soil - Geochemistry, Mechanical - Trenching  Rock - Geochemistry, Soil - Geochemistry, Mechanical - Trenching  Rock - Geochemistry, Soil - Geochemistry, Mechanical - Trenching