



## Occurrence Details

**Occurrence Number:** 116B 081

**Occurrence Name:** Hattie

**Occurrence Type:** Hard-rock

**Status:** Unknown

**Date printed:** 12/16/2025 10:42:01 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):** 116B03

**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. McFaul 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 McFaul. 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 east-west. 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

DAWSON DAILY NEWS, 4 Dec/1905.

DEBICKI, R.L., 1984. Bedrock geology and mineralization of the Klondike area (west), 1150/14, 15, and 116B/2, 3. Exploration and Geological Services Division, DIAND, Open File 1984-3.

GEORGE CROSS NEWSLETTER, 20 Aug/93,

KENNECOTT CANADA INC., Mar/94. Assessment Report #093183 by R. Cranswick and A. Doyle.

KENNECOTT CANADA INC., Feb/96. Assessment Report #093357 by H.O. Cookenboo.

MACLEAN, T.A., 1914. Lode mining in Yukon. Mines Branch Publication 222, p. 124-125.

MERCED INC., Oct/91. Assessment Report #092994 by D.A. Downing.

MORTENSEN, J.K., 1990. Geology and U-Pb geochronology of the Klondike District, West-Central Yukon Territory. Canadian Journal of Earth Sciences, Vol. 27, p. 903-914.

RAY, D.G., 1962. The mineralogy of some heavy sands from the Klondike. Unpublished B.Sc. Thesis, University of British Columbia.

TEMPELMAN-KLUIT, D.J., 1982. White Channel gravel of the Klondike. In: Yukon Exploration and Geology 1982, p. 74-79.

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

## Work History

Date	Work Type	Comment

12/31/1993	Geology	
12/31/1993	Trenching	
12/31/1993	Other	
12/31/1992	Trenching	McFaul 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

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
<a href="#">094725</a>	2005	2006 Geological Report on the HENRY 1-6 Claims	Detailed Bedrock Mapping - Geology		
<a href="#">120356</a>	1993	Sedimentology, Stratigraphy, and Depositional History of High Bench Gravels on Australian Hill, Klondike Placer District, Yukon Territory: Implications for Placer and Lode Gold Exploration			
<a href="#">093075</a>	1992	Geological, Geochemical and Trenching Report on the Dawson Property	Rock - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Prospecting - Other, Mechanical - Trenching		
<a href="#">092690</a>	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, Magnetism - Ground Geophysics, Line Cutting - Other, Mechanical - Trenching		
<a href="#">092591</a>	1987	Geological, Geochemical, Geophysical and Underground Exploration of the Ben Levy, Hun II, Hunker Extension, and Hattie Grids - Lower Hunker Creek	Rehabilitation - Development, Underground, Soil - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics		
<a href="#">091807</a>	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, Magnetism - Ground Geophysics, Heavy Mineral Concentrate - Lab Work/Physical Studies, Petrographic - Lab Work/Physical Studies, Mechanical - Trenching		
<a href="#">091546</a>	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		
<a href="#">090556</a>	1979	Radiometric Geochemical and Radon Soil Gas Survey on the SURPRISE 1-225 Claims	Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Gamma-ray Spectrometry - Ground Geophysics, Heavy Mineral Concentrate - Lab Work/Physical Studies, Line Cutting - Other, Prospecting - Other		
<a href="#">090448</a>	1978	Assessment Report Surprise Claims	Auger - Drilling, Drill Core - Geochemistry, Drill Cuttings - Geochemistry, Soil - Geochemistry, Mechanical - Trenching	9	415.40
<a href="#">090274</a>	1976	Assessment Report on SURPRISE 1-95 Claims	Rock - Geochemistry, Soil - Geochemistry, Water - Geochemistry, Bedrock Mapping - Geology, Gamma-ray Spectrometry - Ground Geophysics, Line Cutting - Other, Prospecting - Other, Hand - Trenching, Mechanical - Trenching		