



Occurrence Details

Occurrence Number: 115N 044
Occurrence Name: Enchantment
Occurrence Type: Hard-rock
Status: Showing
Date printed: 4/29/2025 9:36:08 PM

General Information

Secondary Commodities: copper, gold
Deposit Type(s): Paleoplacer
Location(s): 63°53'16" N - -140°25'18" W
NTS Mapsheet(s): 115N16
Location Comments: .5 Kilometres
Hand Samples Available: No
Last Reviewed:

Capsule

Exploration History

Staked as Hart cl (87406) in May/66 by L. Proctor; as Pal cl 1-16 (Y15890) in Apr/69 by Klondike Exploration Ltd; and as Hart cl 1-8 (Y65838) in Jan/73 by Silver Standard Mines Ltd, which carried out geological mapping and geochemical sampling later in the year.
Restaked as Ma cl 1-4 (YA89555) in Jul/87 by S. Ridgeway, who transferred the claims to Walhalla Exploration Ltd in May/89.
Restaked as Monica cl 1-10 (YC04655) in Sep/97 by A. Rudis, who formed an informal partnership with R. Nordling. The pair carried out geochemical sampling in 1998 and 1999. Rudis staked Ax cl 1-12 (YC13379) 7 km south and Al cl 1-22 (YC13391) 5 km south in Apr/99. In Oct/99 R. Nordling staked Nic cl 1-4 (YC20926) 7.5 km to the southwest.
In Aug/2000 Nordling staked Tim cl 1-2 (YC20309) and Sha cl 1-4 (YC20311) 2 km southwest and added Nic cl 5-6 (YC20926) and cl 9-14 (YC20928) to their holdings. Following the completion of staking, the partners carried out magnetic geophysical surveys over the Monica, Nic, Sha, Tim and Al claims and collected numerous soil, silt and rock samples over their various claim holdings. The Chant claims were staked in 2010 by S. Ryan and optioned to White Gold Corp. The Hart claims were staked in 2013 by White Gold.

Capsule Geology

The area surrounding this occurrence is underlain by Late Devonian to mid-Mississippian and older (?) metasedimentary and metavolcanic rocks assigned to the Nasina Assemblage. These rocks are intruded by a large body of orthogneissic rocks derived from metaplutonic rocks. In some places the orthogneiss is merely strongly foliated, rather than truly gneissic. The exact age of these rocks is unknown, but Ryan and Gordey (2002, 2003) reported a earliest Mississippian age for orthogneissic rocks located in the southern half of the Stewart River map sheet.
The orthogneiss is overlain by a sequence of unmetamorphosed sedimentary and volcanic rocks informally referred to as the Carmacks Group. The Carmacks Group is believed to range from Lower to Upper Cretaceous in age. Numerous granitic intrusions ranging from Cretaceous to Tertiary are also known to occur in the region.
Sampling in 1998 and 1999 by Rudis and Nordling produced two silt samples from Cheryl Creek (local name) that returned anomalous values for Au; the first from a small tributary just south of the Monica cl 6 (25 ppb Au) and the second just above the confluence with Fifty Mile Creek in the vicinity of Al cl 9 (58 ppb Au). Placer gold previously recovered from Cheryl Creek was largely coarse with a few pieces showing enclosed fragile cuprite crystals. This suggests that any gold present in the area has not traveled far from source.
A total magnetic field survey run along Cheryl Creek returned a semi-continuous magnetic anomaly which may define an old stream channel or a possible bedrock source. A second survey run across the Nic claims returned a semi-continuous magnetic anomaly over Line 2 of the survey which was theorized to represent either magnetite concentrations within the placer gravels and/or a bedrock source. Prospecting along Cheryl Creek returned highs of 214 ppm nickel, 150 ppm zinc and 24 ppb gold from various ultramafic and gneissic float samples. The ultramafic samples likely represent small dykes cutting across bedrock.

Work History

Date	Work Type	Comment
8/1/2021	Airphotography	
8/1/2021	Geochemistry	
8/1/2021	Ground Geophysics	
8/1/2021	Ground Geophysics	
8/1/2021	Geology	
8/1/2021	Remote Sensing	
8/1/2020	Geochemistry	
8/1/2020	Ground Geophysics	
8/1/2020	Ground Geophysics	
8/1/2012	Geochemistry	
8/1/2012	Geochemistry	
8/1/2012	Other	
8/1/1999	Geochemistry	
8/1/1999	Geochemistry	
8/1/1999	Geochemistry	

8/1/1999	Trenching	
12/31/2000	Geochemistry	
12/31/2000	Geochemistry	
12/31/2000	Ground Geophysics	Partnership carried out Total Field magnetic surveys over various claims.
12/31/2000	Other	
12/31/1999	Other	
12/31/1998	Geochemistry	Also soil sampling.
12/31/1973	Geochemistry	
12/31/1973	Geology	
12/13/1997	Geochemistry	Also soil sampling.

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
096400	2012	Geological and Geochemical Report, Mapping and Soil Surveys on the Fifty-Mile Block	Rock - Geochemistry, Rock - Geochemistry, Soil - Geochemistry, Soil - Geochemistry, Prospecting - Other, Prospecting - Other		
095997	2011	Geological and Geochemical Report on the Fifty Mile Property	Rock - Geochemistry, Rock - Geochemistry, Soil - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Bedrock Mapping - Geology, Backhoe - Trenching, Backhoe - Trenching		
120195	2001	Analysis: Total Magnetic Field and Gradient Survey of the Fifty Mile Placer Properties	Shaft Development - Development, Underground, Silt - Geochemistry, Magnetics - Ground Geophysics, Heavy Mineral Concentrate - Lab Work/Physical Studies, Highbanker, longtom - Placer Processing, Panning - Placer Processing, Data Compilation - Pre-existing Data, Hand - Trenching		
094285	2000	Assessment Evaluation Report-Nordling & Rudis-Monica 1-10- Assessment Period: 1990-2000	Magnetics - Ground Geophysics, Data Compilation - Pre-existing Data		
094072	1999	Geological and Geochemical Report on the Enchantment Creek- Intrusion related Gold Target-West Central Yukon Territory	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other		
094121	1999	Assessment Evaluation Report-Nordling & Rudis-50 Mile Creek Area	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Prospecting - Other, Hand - Trenching		
093956	1998	Assessment Evaluation Report-Nordling & Rudis-Monica 1-10- Assessment Period: 1997-1998	Biogeochemistry - Geochemistry, Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Heavy Mineral Concentrate - Lab Work/Physical Studies		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC012814	Map Sheet 115-N-16 showing claims of area and notations - Mount Hart area		Property File Collection	Geoscience Map (General)
ARMC012820	Geology map of Mount Hart area - 115-N-16		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC012828	Air photo overlays - 115-N-16 - Enchantment Creek, Mt. Hart, 50 Mile Creek, Boucher Creek, Haute Gulch, Mt. Tyrell, Granite Gulch, 60 Mile River areas - Air photos no. 12043-341, 12043-336, 12043-335, 12043-337, 12042-322, 12042-319, 12043-285, 12043-283, 12043-281, 12043-282, 12043-284, 12043-339, 12042-318.		Property File Collection	Geoscience Map (General)
ARMC012827	Notes on Enchantment Creek fly camp		Property File Collection	Miscellaneous Company Documents
ARMC012822	Map of Enchantment Creek area showing geochemical assays - Field copy - Aeromagnetic series map 4282G		Property File Collection	Geochemical Map
ARMC012821	Map of Enchantment Creek area showing geochemical location markings - Aeromagnetic series map 4282G		Property File Collection	Geochemical Map
ARMC012825	Map of Enchantment Creek area showing geology - Aeromagnetic series map 4282G		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC012824	Map of Enchantment Creek area showing geology (coloured) - Aeromagnetic series map 4282G		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC012823	Map of Enchantment Creek area with notations - Aeromagnetic series map 4282G		Property File Collection	Geophysical Map
ARMC01	Map of Enchantment Creek area with waterways marked - Aeromagnetic series map 4282G		Property File	Geophysical

2826	Map of Enhancement Creek area with water ways marked - Aeromagnetic Series map 74063		Collection	Map
99-057	Prospecting Technical Report for 50 Mile Creek Area, Henderson Dome Area		Yukon Government: Energy, Mines and Resources	YMEP Report