



Occurrence Details

Occurrence Number: 105D 207
Occurrence Name: Valerie
Occurrence Type: Hard-rock
Status: Deposit
Date printed: 4/28/2025 7:40:39 PM

General Information

Primary Commodities: copper, gold
Aliases: Whitehorse Copper
Deposit Type(s): Skarn
Location(s): 60°37'52.37" N - -135°3'40.23" W
NTS Mapsheet(s): 105D11
Hand Samples Available: No
Last Reviewed:

Capsule

The Whitehorse Copper Belt is located west of Whitehorse and contains 30+ mines, deposits and showings. Many of the occurrences in the Copper Belt are skarns. The skarns form on or near the contact between the Whitehorse batholith and the Lewes River group. The Whitehorse batholith is commonly a grey coarse-grained hornblende granite and ranges from quartz monzonite to granodiorite to diorite. The Lewes River group contains numerous different rock types, most importantly of which is the limestone group, which is essential in the formation of skarns in the area. A small number of occurrences within the Copper Belt are vein and/or replacement and occur within the Whitehorse batholith granite.

The Valerie deposit occurs at the contact between the Whitehorse batholith granite and Lewes River limestone. The deposit contains minerals such as pyrite, pyrrhotite, chalcopyrite, magnetite, augite, garnet and calcite. The deposit is outlined by a geophysical anomaly that is 450ft (137 m) long. In the immediate vicinity to the north, geophysical work has identified 4 more anomalies totalling 1200ft (366 m) in 2800ft (853 m). Drilling in 1963-64 encountered copper magnetite mineralization.

Production between 1899 and 1907 totalled 127 tonnes at 1.65% Cu and 0.68 g/t Au. Elements such as cobalt, nickel, palladium and platinum were detectable during assay.

Work History

Date	Work Type	Comment
12/13/1974	Drilling	
12/13/1974	Ground Geophysics	
12/13/1974	Geochemistry	
12/13/1973	Drilling	1 hole completed
12/13/1973	Geology	
12/13/1973	Pre-existing Data	
12/13/1973	Lab Work/Physical Studies	
12/13/1969	Studies	
12/13/1966	Studies	
12/13/1964	Drilling	
12/13/1963	Drilling	3 holes completed
12/13/1963	Ground Geophysics	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
061173	1974	Report on Exploratory Work on Whitehorse Copper Belt	Diamond - Drilling, Drill Core - Geochemistry, IP - Ground Geophysics	10	2222.29
060525	1973	[Proposed Surface Drill Programs on the Little Chief-Big Chief-Valerie Properties]	Research/Summarize - Pre-existing Data		
062018	1973	Preliminary Report on Geological Control to Ore Distribution in the Whitehorse Copper Belt	Reverse Circulation - Drilling, Bedrock Mapping - Geology, Petrographic - Lab Work/Physical Studies	665	5555
062228	1969	Feasibility Study for the Underground Development of the Little Chief Orebody	Feasibility - Studies		
092558	1967	[Drilling of the Little Chief Orebody]	Diamond - Drilling	21	

062227	1966	An Evaluation of the New imperial Mines Ltd.	Feasibility - Studies		
091123	1964	Summary of assessment work for 316 claims	Diamond - Drilling	46	3652.57

Related References					
Number	Title	Page(s)	Reference Type	Document Type	
1984-1	The Whitehorse Copper Belt - A Compilation		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Open File (Geological - Bedrock)	
ARMC004893	Magnetic survey map - sheet 460N/610E - Big, Middle & Little Chief and Valerie claims		Property File Collection	Geophysical Map	
ARMC014222	Claim map with grid - Valerie-North Star		Property File Collection	Geoscience Map (General)	
ARMC004791	Summary and map - Valerie		Property File Collection	Report	
ARMC004797	Map showing Valerie, Big Chief, Little Chief		Property File Collection	Geoscience Map (General)	
ARMC004805	Map of Valerie, Arctic Chief, and War Eagle		Property File Collection	Geoscience Map (General)	

Drill core at YGS core library					
Number	Property	Year Drilled	Core Size	Photos	Data
DDH-V-19	Valerie	1974	NTW-BTW	62	0
DDH-V-17	Valerie	1973	AQ	44	2