



Occurrence Details

Occurrence Number: 115I 144

Occurrence Name: Transition

Occurrence Type: Hard-rock

Status: Showing

Date printed: 4/28/2025 7:32:31 PM

General Information

Secondary Commodities: copper, gold, molybdenum, silver

Aliases: Goulter

Deposit Type(s): Porphyry Cu-Mo-Au

Location(s): 62°5'4.31" N - -137°10'22.88" W

NTS Mapsheet(s): 115I03

Location Comments: Location provided by Rockhaven Resources 2019

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Silver Standard Mines Ltd. staked YU cl (73506) in July 1958 and explored with mapping and EM surveys in 1958-1959.

Re-staked by G. Dickson as Wedge cl 1-15 (YA82167), by M. Muursepp as Bull cl 1-8 (YA81420) and other miscellaneous claims, in 1984. Prochem Ltd. optioned the leased claims and some of the Wedge claims and explored with soil geochemistry, prospecting, EM-16 surveys and bulldozer trenching in 1985; grid geochemistry, trenching, mapping and EM geophysics in 1986; and bedrock mapping and ground magnetics in 1988. The 1987 and 1988 work was funded by a subsidiary of Prochem's; Aurchem Resources Ltd.

Aurchem added JBF cl 1-7 ((fractional) YB362590) and Jon-Wedge cl 1-6 (YB35895) in August 1992 and explored with 3,384.8 m of reverse circulation drilling in 32 holes in July and August, 1992. In July 1993, the Wedge cl 1-4 and 16-17 were transferred to J. Dickson from the estate of G. Dickson. In 1993, Aurchem conducted soil geochemistry on the claims covering the Transition occurrence.

In March 1995, the Wedge claims were transferred to Aurchem Exploration Ltd. In early 1996, BYG obtained an option to purchase all of Aurchem's claims located in the Mt Nansen area. As part of this agreement BYG funded an extensive trenching and mapping program from August to October 1996, on the Bull 2, JBF 1-f, Jon-Wedge 3 and LCGS 1 claims. BYG encountered financial difficulties at the end of 1996 and suspended most exploration activities. In February 1999, BYG announced plans to temporarily shut down the Mount Nansen Mine. In March 1999, BYG was placed in receivership and the Nansen mine became a Type II Minesite. The Wedge, Etzel and Bull claims reverted to Aurchem after the federal government took over maintenance of the adjoining Mount Nansen mine site in July 1999.

In 2009, 101073531 Saskatchewan Corp. flew a regional airborne and magnetic survey that included the Transition occurrence. In 2011, Ansell Capital Corp optioned the Discovery Creek property, including the Transition occurrence, from Aurchem Exploration. Ansell Capital carried out bedrock mapping as well as rock and soil geochemistry in 2011.

Regional & Property Geology

The occurrence is located in the Dawson Range within Yukon-Tanana Terrane (YTT). The rocks of the YTT in this region consist of Early Mississippian metamorphic rocks separated into meta-sedimentary and meta-igneous suites (Stroshein, 1998). The meta-sedimentary suite consists of micaceous quartz-feldspar gneiss, schist and quartzite of the Nasina Assemblage. The meta-igneous package is comprised of biotite-hornblende feldspar gneiss and coarse-grained granodiorite orthogneiss with lesser amphibolite.

Four rock types dominate the geology surrounding the occurrence and are comprised of:

1. Paleozoic metamorphic Yukon-Tanana gneiss, quartzite, and amphibolite to the south;
2. Triassic to Jurassic metamorphosed alkali-feldspar-rich plutonic suites;
3. Mid-Cretaceous Mount Nansen Suite andesite, felsic lapilli tuffs, basaltic to latite volcanic rocks; and quartz feldspar porphyry, dacite, latite, and quartz monzonite porphyritic hypabyssal rocks; and
4. Mid-Cretaceous Whitehorse granodiorite.

A porphyry copper-molybdenum complex (MINFILE occurrence 115I 066) is found in the northeast section of the property, with argillic and propylitic alteration haloes covering the remainder. The porphyry complex occurs at the intersection between a major northwest structure and an east-west fault. Copper and molybdenum ± gold and silver occur in a porphyry stock and phyllic-altered granodiorite. Surface leaching and oxidation is variable, but can reach considerable depths. A steeply dipping, northwest-striking epithermal vein system which formed peripheral to the porphyry migrated inward during cooling and collapsed, creating a complex system of overlapping mineralization including: porphyry Cu-Mo-Au-Ag; northwest striking mesothermal quartz-pyrite-gold veins; and northwest striking epithermal quartz-Au-Ag-Pb-Zn-Cu veins.

Mineralization & Results

The Transition occurrence consists of four main quartz-pyrite-gold veins and stockworks hosted in granodiorite within the phyllic alteration zone of the porphyry complex, as well as gold-silver-lead-copper veins and stockwork overprinted on earlier porphyry mineralization and alteration. Porphyry-related quartz and quartz-tourmaline breccias are found within a general argillic alteration zone. RC drilling at Transition in 1988 returned elevated assay values of up to 0.014 oz/ton Au, 0.029 oz/ton Ag, 448 ppm Pb, 747 ppm Zn, and 1534 ppm As over 5 feet, as well as 0.61 oz/ton Au, 1.28 oz/ton Ag, 1108 ppm Zn and 0.21% As over 5 feet.

Work History

Date	Work Type	Comment
12/13/2011	Geochemistry	
12/13/2011	Geology	
12/13/2011	Geochemistry	
12/13/2009	Airborne Geophysics	And EM.
12/13/1993	Geochemistry	

12/13/1992	Drilling	
12/13/1988	Geochemistry	
12/13/1988	Ground Geophysics	
12/13/1988	Geology	
12/13/1986	Geochemistry	
12/13/1986	Geology	
12/13/1986	Geochemistry	
12/13/1986	Ground Geophysics	
12/13/1986	Trenching	
12/13/1985	Geology	
12/13/1985	Geochemistry	
12/13/1985	Trenching	
12/13/1985	Other	
12/13/1985	Ground Geophysics	
12/13/1959	Ground Geophysics	
12/13/1958	Geology	

Assessment Reports that overlap occurrence					
Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
095861	2011	Assessment Report on the 2011 Trenching and Diamond Drilling Program	Diamond - Drilling, Soil - Geochemistry, Bedrock Mapping - Geology, Backhoe - Trenching	22	3607.93
095471	2011	Summary Report on the 2011 Reconnaissance Mapping and Soil Geochemistry Program	Rock - Geochemistry, Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology		
095089	2009	Report on a Geophysical Survey on the Mount Nansen Property and the Tawa Property	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics		
094450	2003	Exploration Report for 2003 Geological, Geochemical and Trenching on the Bull, Jbf, Etzel, J-Bill and Jcs Mineral Claims	Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Cursory Property Visit - Other, Prospecting - Other, Mechanical - Trenching		
093138	1993	Report on a Soil Geochemical Survey Carried out on the Discovery Creek Property on Claims of: Wedge, Jbf, Jon-Wedge, Lcgs	Soil - Geochemistry, Line Cutting - Other		
093059	1992	Report on the Reverse Circulation Drilling With Assays Carried out on the Discovery Creek Property on Claims of: Wedge, Bull , Ras, Ras	Reverse Circulation - Drilling	32	3384.80
092701	1989	Report on the Geology and Mineral Inventory of the Mt. Nansen and Tawa Properties With Assessment of the Economic Potential for Open Pit Mining of Oxidized Mineralization in the Brown-McDade Zone	Data Compilation - Pre-existing Data, Resource Estimate - Studies		
092588	1988	1988 Diamond Drill and Exploration Program - Discovery Creek Project	Diamond - Drilling, Soil - Geochemistry, Bedrock Mapping - Geology, Magnetics - Ground Geophysics, Mechanical - Trenching	15	1219.20
091845	1986	Geological, Geophysical, Geochemical and General Exploration Including Trenching was Carried out on Wedge, Ras, Lgsc, and Msl Claims	Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics, Line Cutting - Other, Hand - Trenching		
092153	1986	Geological, Geophysical, Geochemical and General Exploration Including Trenching was Carried out on Wedge, Ras, Lgcs, and Msl Claims	Interpretation - Airphotography, Rock - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, EM - Ground Geophysics, Metallurgical Tests - Lab Work/Physical Studies, Petrographic - Lab Work/Physical Studies, Line Cutting - Other, Mechanical - Trenching		
091658	1985	Geological, Geophysical, and Geochemical Exploration Work Carried out on Wedge 5-10,15	Interpretation - Airphotography, Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics, Prospecting - Other, Mechanical - Trenching		
062230	1966	Preliminary Feasibility Report Development and Mining Operations at the Mount Nansen Properties	Pre-feasibility - Studies		
060738	1959	Report on the Reconnaissance Electromagnetic Survey in the Nansen Creek Area, Yukon Territory - Silver Standard Group, Brown McDade Group	EM - Ground Geophysics		
019091	1958	Geology of Nansen Creek Area Claims Silver Standard Mines Ltd.	Bedrock Mapping - Geology		
092059	1958	Report on Geology of Nansen Creek Area Claims	Detailed Bedrock Mapping - Geology		

Related References				
Number	Title	Base(s)	Reference Type	Document

Number	Title	Page(s)	Reference Type	Type
YEG1998_20	A summary report on the geology of the Brown-McDade gold-silver deposit, Mount Nansen mine area, Yukon		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report Paper
YEG1997_14	Geology and mineral deposits of the Mount Nansen camp, Yukon		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report Paper