



Occurrence Details

Occurrence Number: 115I 117

Occurrence Name: Eastern Dickson

Occurrence Type: Hard-rock

Status: Prospect

Date printed: 4/28/2025 7:51:04 PM

General Information

Secondary Commodities: antimony, copper, gold, lead, silver, zinc

Aliases: Klaza, Dic

Deposit Type(s): Vein Polymetallic Ag-Pb-Zn+/-Au

Location(s): 62°6'48.94" N - -137°15'4.44" W

NTS Mapsheet(s): 115I03

Location Comments: Location provided by Rockhaven Resources 2019

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Staked as Dic cl 1-51 (YA93470) in September 1985 by Kerr Addison Mines Ltd., which explored with soil sampling, prospecting and ground magnetic and VLF-EM geophysical surveys and mapping and added Dic cl 52-63 (YA95111) in 1986. Optioned by Chesbar Resources Inc. and States Exploration Ltd., which performed bulldozer trenching in 1987 and 1988. The claims were transferred to Chesbar in March 1989.

In October 1989 the claims were transferred to G. Dickson to fulfil the obligations of an option agreement covering the neighbouring Vic claims (MINFILE occurrence 115I 068). Dickson performed trenching in 1990.

Re-staked as Eagle cl 1-12 (YB35415) in October 1990 by G. Dickson who also staked Dic cl 101-106 (YB35470) to the south at the same time. Upon Mr. Dickson's death the Eagle and Dic claims were transferred to his wife Janet. Mrs. Dickson optioned the claims to Aurchem Exploration Ltd. in October 1994. In early 1996, BYG Natural Resources Inc. obtained an option to purchase all of Aurchem Exploration's claims located in the Mount Nansen area. In the summer of 1996, BYG carried out a large regional geophysical program, parts of which covered the Dic and Eagle claims.

In November 2011, Rockhaven Resources purchased Dic cl 1-7 (YA93470) and cl 101-106 (YB35475) and Eagle cl 1-12 (YB35415) from Aurchem Exploration Ltd. Airborne gamma-ray and magnetic geophysical surveys, as well as orthophotos, were carried out over the Klaza property in 2011, including the Dickson occurrence.

In 2012, Rockhaven drilled 8 diamond drill holes and performed trenching and soil sampling over the Dickson occurrence. In 2014, Rockhaven performed property-wide bedrock mapping, as well as ground EM and magnetic geophysical surveys at Klaza, which included the Dickson occurrence. Rockhaven performed soil and rock sampling at Dickson in 2016 and drilled 2 diamond drill holes in 2017 with follow-up diamond drilling in 2019.

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. These basement rocks are cut by numerous plutonic and volcanic events from the Cretaceous and Tertiary.

The oldest exposed unit within the boundaries of the Klaza property is a pluton of the Early Jurassic Long Lake Suite (EJL), which outcrops in the northeast corner. The majority of the property is underlain by coarse-grained, non-foliated Mid-Cretaceous Whitehorse Suite granodiorite (mKW) comprised of 30% hornblende and biotite. A moderate size, quartz-rich granite to quartz monzonite Casino Suite stock (LKq) intrudes the granodiorite in the southeast corner of the property and is thought to be the main heat source for hydrothermal cells responsible for mineralization on the property. A series of northwesterly trending feldspar porphyry dykes (LKfp) emanating from the stock in the southeastern part of the property cut the Whitehorse suite granodiorite in the Klaza occurrence area. These dykes are up to 30 m wide and consist of buff aphanitic groundmass containing up to 15% orthoclase phenocrysts (1 to 2 mm) with minor biotite and rare quartz phenocrysts. The dykes commonly occupy the same structural zones as the mineralized veins and are often strongly fractured. Some veins cross-cut dykes (Turner & Dumala, 2017).

Sub-aerial volcanic and volcanoclastic rocks belonging to the Mount Nansen (mKN) and Carmacks (uKC) volcanics are found on the periphery of the property. These rocks are believed to be extrusive equivalents of the mid and Late Cretaceous intrusions, respectively (Turner & Dumala, 2017).

Mineralization & Results

Mid-Cretaceous Mount Nansen Group pyroclastic volcanic rocks are intruded by mid-Cretaceous biotite-hornblende granodiorite of the Dawson Range batholith and numerous feldspar porphyry dykes. Sericite-carbonate and quartz-sericite alteration occurs along the volcanic-granodiorite contact and within the feldspar porphyry dykes. Narrower quartz veins and stringers cutting the pyroclastic rocks assayed up to 0.4 g/t Au while quartz-carbonate vein float containing sphalerite, galena, pyrite and minor chalcopyrite returned up to 123.4 g/t Ag. Soil samples collected by Kerr Addison were anomalous for antimony, arsenic, silver and gold.

BYG cut 3 grids; grids 1, 2, and 3 and then carried out ground VLF-EM and total field magnetics geophysical programs on each grid. The eastern portions of grids 2 and 3 covered portions of the Dic and Eagle claims. Numerous VLF-EM conductors and magnetic anomalies were found, but the lack of detailed geological mapping made interpretation difficult. BYG carried out preliminary soil sampling to try and follow up some of the geophysical targets but none of the lines covered the Dic or Eagle claims. Further work was cancelled when the company encountered financial problems.

The Dickson zone was tested by eight holes in two areas located approximately 1500 m apart in 2012. The deepest intercept was 100 m down dip of surface and returned 7.08 g/t Au and 127 g/t Ag over 1.00 m. Other significant intervals from the drilling in 2012 include 5.83 g/t Au and 132 g/t Ag over 1.35 m in KL-12-83 and 3.09 g/t Au and 78.6 g/t Ag over 3.38 m in KL-12-108.

Drilling in 2017 by Rockhaven Resources returned significant intercepts of up to 4.89 g/t Au and 38.6 g/t Ag over 0.62 m and 3.17 g/t Au and 40.4 g/t Ag over 0.98 m.

Work History

Date	Work Type	Comment
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7/1/2019	Drilling	2 holes, 320.69 m
7/1/2019	Geochemistry	
7/1/2017	Trenching	
7/1/2017	Geochemistry	
7/1/2017	Geochemistry	
7/1/2017	Airborne Geophysics	
7/1/2016	Ground Geophysics	
7/1/2014	Trenching	
7/1/2014	Geochemistry	
7/1/2014	Ground Geophysics	
7/1/2009	Airborne Geophysics	
7/1/2009	Airborne Geophysics	
7/1/1996	Other	
7/1/1996	Ground Geophysics	
7/1/1987	Geochemistry	
7/1/1987	Development, Surface	
7/1/1980	Geology	
7/1/1980	Geochemistry	
7/1/1980	Trenching	
7/1/1980	Other	
7/1/1969	Geochemistry	
7/1/1969	Trenching	
7/1/1968	Other	
7/1/1968	Geochemistry	
7/1/1968	Ground Geophysics	
12/31/1996	Ground Geophysics	Also VLF-EM survey .
12/31/1990	Trenching	
12/31/1987	Trenching	
12/31/1986	Geology	
12/31/1986	Geochemistry	Also rock sampling.
12/31/1986	Ground Geophysics	Also VLF- EM survey .
12/31/1985	Other	
12/13/2017	Drilling	2 diamond drill holes.
12/13/2016	Geochemistry	
12/13/2016	Geochemistry	
12/13/2014	Geology	
12/13/2014	Ground Geophysics	And EM.
12/13/2012	Trenching	
12/13/2012	Drilling	8 diamond drill holes.
12/13/2012	Geochemistry	
12/13/2011	Airphotography	
12/13/2011	Airborne Geophysics	
12/13/2011	Airborne Geophysics	
12/13/1996	Geochemistry	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
097138	2017	Assessment Report describing Geology, Mineralization, Soil Geochemistry, Rock Geochemistry, Geophysical Surveys, Excavator and Hand Trenching, Diamond Drilling and Metallurgical Testing	Metallurgical Tests - Lab Work/Physical Studies		
097000	2016	Assessment Report describing geology, mineralization, soil geochemistry, rock geochemistry, geophysical surveys, excavator and hand trenching, diamond drilling, metallurgical testing and preliminary economics at the Klaza property	Diamond - Drilling, Rock - Geochemistry, Soil - Geochemistry, IP - Ground Geophysics, Metallurgical Tests - Lab Work/Physical Studies, Process/Interpret - Pre-existing Data, Preliminary Economic Assessment - Studies	44	78873.13
096848	2015	Assessment Report Describing Geology, Mineralization, Geophysical Surveys, Excavator Trenching, Diamond Drilling, Metallurgical Testing and Mineral Resources	Diamond - Drilling, Water - Geochemistry, Metallurgical Tests - Lab Work/Physical Studies, Backhoe - Trenching	104	13774
096748	2014	Assessment Report Describing Geology, Mineralization, Geophysical Surveys, Excavator Trenching, Diamond Drilling, Metallurgical Testing and Mineral Resources at the Klaza Property	Diamond - Drilling, Bedrock Mapping - Geology, EM - Ground Geophysics, Magnetics - Ground Geophysics, Metallurgical Tests - Lab Work/Physical Studies, Resource Estimate - Studies, Backhoe - Trenching	104	19242
096667	2013	Assessment Report Describing Excavator Trenching, Geophysical Surveys and Metallurgical Tests at the Klaza Property	Metallurgical Tests - Lab Work/Physical Studies, Backhoe - Trenching		
096465	2012	Assessment Report Describing Diamond Drilling, Excavator Trenching, Soil Sampling, Mineralogical Studies and Metallurgical Tests at the Klaza Property	Diamond - Drilling, Soil - Geochemistry, Metallurgical Tests - Lab Work/Physical Studies, Petrographic - Lab Work/Physical Studies, Backhoe - Trenching	72	22451
096036	2011	Assessment Report Describing Diamond and Reverse Circulation Percussion Drilling, Excavator Trenching, Soil Sampling, and Geophysical and Airphoto Surveys at the Klaza Property	Gamma-Ray Spectrometry - Airborne Geophysics, Magnetic - Airborne Geophysics, Orthophoto - Airphotography, Diamond - Drilling, Reverse Circulation - Drilling, Soil - Geochemistry, Backhoe - Trenching	73	16570
095370	2010	Diamond Drilling, Excavator Trenching, Soil Samping, and Geophysical Surveys at the Klaza Property	Diamond - Drilling, Soil - Geochemistry, EM - Ground Geophysics, Magnetics - Ground Geophysics, Mechanical - Trenching	11	1638.48
095089	2009	Report on a Geophysical Survey on the Mount Nansen Property and the Tawa Property	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics		
094743	2006	Linecutting and Induced Polarization Surveys at the Klaza Property	IP - Ground Geophysics, Line Cutting - Other		
093948	1998	Overburden Stripping and Diamond Drilling Program Tawa-Klaza Project	Diamond - Drilling, Stripping - Placer Processing	3	307.80
093543	1996	1996 Assessment Report Magnetometer, VLF-EM, and Geochemistry Surveys Buffalo Grid, Nisling Grid and Klaza Grids	Soil - Geochemistry, EM - Ground Geophysics, Magnetics - Ground Geophysics, Line Cutting - Other		
093516	1996	1996 Assessment Report Magnetometer, VLF-EM, and Geochemical Survey on the Kr 1-238 Claims Klaza Grids	Soil - Geochemistry, EM - Ground Geophysics, Magnetics - Ground Geophysics		
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		
092585	1988	Tawa Property 1988 Final Report	All Weather Road - Development, Surface, Diamond - Drilling, Stripping - Placer Processing, Mechanical - Trenching	6	377
092083	1987	Report on Road Construction and Trenching Program - Tawa Property	All Weather Road - Development, Surface, Rock - Geochemistry, Soil - Geochemistry, Stripping - Placer Processing, Mechanical - Trenching		
091889	1986	Report on Geology, Geochemistry, Geophysics and Bulldozer Trenching on the Tawa Property	Rock - Geochemistry, Soil - Geochemistry, Regional Bedrock Mapping - Geology, EM - Ground Geophysics, Prospecting - Other, Backhoe - Trenching		
090692	1980	Report on the Tawa Property	Diamond - Drilling, Soil - Geochemistry, Bedrock Mapping - Geology, Cursory Property Visit - Other, Data Compilation - Pre-existing Data, Mechanical - Trenching	7	447.30
062050	1980	Report on the Tawa Property	Drill Core - Geochemistry, Bedrock Mapping - Geology, Cursory Property Visit - Other, Mechanical - Trenching		
060737	1969	Summary Report May Group Claims	Rock - Geochemistry, Mechanical - Trenching		
019090	1968	Assessment Report on the May Claim Group	Soil - Geochemistry, EM - Ground Geophysics, Line Cutting - Other		

Related References

Number	Title	Page(s)	Reference Type	Document Type
YEG1998_2_0	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_1_4	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
1987-2(G)	Geology of Mt. Nansen (1151/3) and Stoddart Creek (1151/6), Dawson Range, Central Yukon		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Open File (Geological - Bedrock)
YEG1997_A ndersen	Geology of the Flex gold-silver vein system, Mount Nansen area, Yukon		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report Paper
YEG2019_5	Updated geology and porphyry copper potential of the Klaza deposit, Mount Nansen district (Yukon MINFILE 1151 067)		Yukon Geological Survey	Annual Report Paper
YEG2016_0	Klaza project: An expanding high-grade Au and Ag resource in the Mount			Annual Report

1132000 V7	Klaza project: An expanding high-grade Au and Ag resource in the Mount Nansen gold camp	Yukon Geological Survey	Annual Report Paper
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