



Occurrence Details

Occurrence Number: 105M 021

Occurrence Name: Eagle

Occurrence Type: Hard-rock

Status: Prospect

Date printed: 8/5/2025 4:06:14 PM

General Information

Secondary Commodities: lead, silver, zinc

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

Location(s): 63°54'26" N - -135°22'1" W

NTS Mapsheet(s): 105M14

Location Comments: Location coordinates provided by Alexco

Hand Samples Available: Yes

Last Reviewed:

Capsule

Work History

Staked as Eagle cl (13380) in Sep/20 by S. Thurber, who explored by hand pitting and two shafts (19.2 m total) in 1923 and 1929-30. Restaked in Oct/34 as Eagle cl 1 (38815) by J.R. Clark and Eagle cl 2 (38811) by A. McLeod, who carried out bulldozer trenching. E.M. Flynn completed a 10.7 m shaft in 1951-52.

Sold in Apr/55 to Jersey Yukon Mines Ltd, which carried out bulldozer trenching in 1955, 1963 and 1964 and drilled 29 holes (1 999.8 m) in 1964. Part of the 1964 work was financed through a joint venture with Conwest Exploration Company Ltd. Jersey Yukon changed its name to Jersey Consolidated Mines Ltd in 1964 and to Holofile Technology Inc in 1976.

Fringe claims staked in the area include, Joan cl (Y55572) to the northeast in Feb/71 by United Keno Hill Mines Ltd; and Fly cl (Y68383) and Ant cl (Y68381) to the northwest and east in Aug/72 by D.L. Smith. United Keno Hill carried out soil geochemical sampling of the Joan claim in Sep/72.

The Eagle claims were optioned in 1978 to Brameda Resources Ltd, which drilled 2 holes (429.2 m) later in the year, merged into Teck Corporation and carried out geochemical surveying and drilled 4 holes (646.5 m) in 1979.

D. Tenney staked Kay cl 2 (YB65551) to the east in Jul/96.

W.D. Mann staked the Blue cl (YC01993) 2.5 km to the east in Sep/99 and carried out prospecting and geochemical sampling.

In Jul/2001, Mann restaked the Fly, Joan and Ant claims as Spider, Man and Ag cl (YC02773) respectively and carried out limited geochemical sampling in 2002.

Avino Silver and Gold Mines Ltd acquired the Eagle claims from Teck in exchange for shares by late in 2003.

Mega Silver optioned the Eagle claims from Avino Silver and Gold Mines Ltd. in 2008. Mega Silver also optioned the Spider, Man and Ag claims, contiguous with the Eagle claims. The 2008 program for Mega Silver's Eagle Project included an airborne magnetic gradiometer and VLF electromagnetic survey over the entire claim holding in the area. Geochemical soil surveys were conducted on the Spider, Man and Ag claims as well as the Fisher claims. Limited geological mapping on the property was carried out.

Capsule Geology

The Eagle vein is a strong, transverse-type vein-fault cutting Early Carboniferous Keno Hill Quartzite near the thrust faulted contact with overlying phyllite and psammite of the Upper Proterozoic Hyland Group. The vein is 50% exposed over a length of 300 m. It varies from 0.6 to 4.9 m wide and is mineralized with erratic lenses of galena, tetrahedrite and sphalerite. Only two significant intersections were obtained in the 1964 drilling. The first, from a branch structure, graded 1 885.7 g/t Ag, 12.8% Pb and 4.2% Zn across 2.1 m. The second, from the main vein at depth, graded 7 624.9 g/t Ag and 1.2% Pb from 15 cm of core, followed by 682.3 g/t Ag and 11.6% Pb from 0.4 m of core.

Soil sampling on the adjoining Joan claim in 1971 revealed a strong Pb-Ag anomaly across the southern boundary of the claim that apparently represents a northeast extension of the Eagle vein. The core of the anomaly, which is open to the southwest onto Eagle cl 1, is approximately 200 by 100 m and contains peak values of 2 280 ppm Pb and 10.8 ppm Ag.

The 1978 and 1979 holes explored a 182.9 m length of the Eagle vein through a vertical range of 243.8 m. The holes cut a complex, branching, and weakly mineralized vein. The best intersection was 366.8 g/t Ag, 5.4% Pb and 6.8% Zn across 1.5 m in Hole JB3.

Mann's sampling in 2002 was carried out along the boundary between the Man (formerly Joan) claim and the Ag claim and along their claim line and returned anomalous values for Pb and Ag (508 and 2.7 ppm, respectively) in the range obtained previously by United Keno Hill Mines in 1971.

Further to the east on the Blue claim an old adit probably dating from the 1920's has exposed a narrow quartz vein containing siderite, calcite, pyrite, galena and sphalerite has intruded a vein fault which is exposed along the cliff face for approximately 25 m. A single grab sample of vein material returned 220.5 g/t Ag and 7.11% Pb. Reconnaissance soil sampling across the claim returned generally low values, except for one sample near the western edge of the claim that returned 53 ppb Au.

The Blue claim lies directly south of the Moth vein fault system, which occurs in a low lying area southeast of Christal Lake. It consists of a breccia and sheeted vein zone which has been traced northeast from Lightening Creek for approximately 750 m. United Keno Hill Mines Ltd (1997) identified an open pit resource (referred to as a probable reserve) of 15 184 tonnes grading 654.8 g/t Ag, 1.82% Pb and 6.41% Zn for the Flame and Moth mine.

The detailed geochemical survey performed by Mega Silver over the Spider, Man and Ag claims in 2008 produced a strong coincident silver-lead-zinc-arsenic-antimony anomaly extending 350 m across the Man claim.

References

AVINO SILVER AND GOLD MINES LTD, Mar/2004. Website, www.avino.com.

AVINO SILVER AND GOLD MINES LTD, News Release, 12 Nov/2008.

GEOLOGICAL SURVEY OF CANADA Bulletin 111, p. 77.

GEOLOGICAL SURVEY OF CANADA Paper 55-30, p. 27-28; 64-36, p. 14.

MANN, W.D., Jul/2000. Assessment Report #094161 by W.D. Mann.

MANN, W.D., Jul/2003. Assessment Report #094433 by W.D. Mann.

MEGA SILVER INC., News Release, 28 Nov/2008.

MURPHY, D.C. and ROOTS, C.F., 1996. Geological map of Keno Hill area, Central Yukon (105 M/14). Exploration and Geological Services Division, Indian and Northern Affairs Canada, Map 1996-1, scale 1:50 000.

MURPHY, D.C., 1997. Geology of the McQuesten River Region, Northern McQuesten and Mayo Map Areas, Yukon Territory (115P/14, 15, 16: 105M/13, 14). Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Bulletin 6, 122 p.

ROOTS, C.F., 1997. Geology of the Mayo Map Area, Yukon Territory (105M). Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Bulletin 7, 82 p.

UNITED KENO HILL MINES LTD, Feb/73. Assessment Report #060116 by J.D. Ellerington.

UNITED KENO HILL MINES LTD, Feb/80. Assessment Report *#090569 by T.J. Levicki.

UNITED KENO HILL MINES LTD, May/97. Annual Information Form for the year ending 31 Dec/96, p. 18.

YUKON GEOLOGY AND EXPLORATION 1979-80, p. 206.

Work History		
Date	Work Type	Comment
12/31/2008	Airborne Geophysics	Also VLF-EM survey.
12/31/2002	Geochemistry	Reconnaissance sampling of Spider, Man and Ag claims.
12/31/2000	Geochemistry	Soil sampling on Spider, Man and Ag claims
12/31/1999	Geochemistry	Carried out by W. Mann on the Blue claim, 1.25 km east of this occurrence.
12/31/1999	Other	Carried out by W. Mann on the Blue claim, 1.25 km east of this occurrence.
12/31/1979	Drilling	Four holes, 646.5 m.
12/31/1979	Geochemistry	
12/31/1978	Drilling	Two holes, 429.2 m.
12/31/1972	Geochemistry	Carried out on Joan claim.
12/31/1964	Drilling	Twenty-nine holes, 1,999.8 m.
12/31/1964	Trenching	
12/31/1963	Trenching	
12/31/1955	Trenching	
12/31/1952	Trenching	
12/31/1952	Trenching	
12/31/1951	Trenching	
12/31/1951	Trenching	Amount of work completed 10.7 m.
12/31/1930	Trenching	Carried out from 1923 through 1930. Also carried out hand trenching.
12/13/2009	Pre-existing Data	
12/13/2009	Geochemistry	
12/13/2009	Drilling	
12/13/2009	Geology	
12/13/2009	Lab Work/Physical Studies	
12/13/2009	Trenching	
12/13/2009	Geochemistry	
12/13/2009	Other	
12/13/2009	Development, Surface	
12/13/2009	Drilling	
12/13/2008	Geochemistry	
12/13/2008	Geology	Limited mapping.
12/13/2006	Airphotography	
12/13/2006	Airphotography	
12/13/2006	Airborne Geophysics	
12/13/2006	Airborne Geophysics	

12/13/2006	Pre-existing Data	
12/13/2006	Remote Sensing	
12/13/2002	Other	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
096732	2014	Assessment Report Describing Metallurgical Test Pits, Metallurgical Auger Drilling, Geotechnical Auger Drilling, Geotechnical Study, Environmental Baseline Studies, Heritage Evaluation, and Water Quality and Climate Monitoring Surveys	Auger - Drilling, Water - Geochemistry, Metallurgical Tests - Lab Work/Physical Studies, Environmental Assessment/Impact - Studies, Geotechnical - Studies, Heritage/Archeological - Studies	9	96.77
095672	2009	Eagle Project Diamond Drilling Assessment Report	All Weather Road - Development, Surface, Diamond - Drilling, Drill Core - Geochemistry, Rock - Geochemistry, Bedrock Mapping - Geology, Petrographic - Lab Work/Physical Studies, Prospecting - Other, Data Compilation - Pre-existing Data, Mechanical - Trenching	16	4022.30
094943	2006	2006 Geological, Aerial Photography and Orthophoto Assessment Report on the Keno Hill Property	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Interpretation - Airphotography, Orthophoto - Airphotography, Digitizing Data - Pre-existing Data, Photogrammetry - Remote Sensing		
090486	1979	Geochemical Report on September 1-13 Claims	Soil - Geochemistry		
090564	1979	Geological, Geochemical, and Geophysical Report	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics, Seismic - Ground Geophysics, Research/Summarize - Pre-existing Data		
061011	1976	[drill logs for RAB drilling on the Joan claim, Eagle Showing]	RAB (Rotary Air Blast) - Drilling	5	239.27
019927	1925	[Galena Hill-Geological Map-Hector Mine Sections and Block Diagrams]	Bedrock Mapping - Geology, Geotechnical - Studies		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC019534	Proposed exploration target - Eagle vein - Keno Hill district, Yukon Territory		Property File Collection	Report
09-136	Fisher Rotary Air Blast (RAB) & Diamond Drilling Report Keno Hill Area		Yukon Government: Energy, Mines and Resources	YMEP Report

Drill core at YGS core library

Number	Property	Year Drilled	Core Size	Photos	Data
D09EE-01	Eagle	2009	NTW	8	2
D09EE-02	Eagle	2009	NTW	6	2
D09EE-07	Eagle	2009	NTW	6	3
D09EE-09	Eagle	2009	NTW	2	2
D09EE-10	Eagle	2009	NTW	2	2
D09EE-11	Eagle	2009	NTW	6	2
JB-3	Eagle	1977	NTW	2	0
JB-4	Eagle	1977	NTW	4	0
JB-5	Eagle	1977	NTW	4	0
JB-6	Eagle	1977	NTW	6	0
JB-1	Eagle	1976	BQ	4	0
JB-2	Eagle	1976	BQ	8	0