



Occurrence Details

Occurrence Number: 105M 005
Occurrence Name: Silver Basin
Occurrence Type: Hard-rock
Status: Prospect
Date printed: 8/6/2025 8:02:46 AM

General Information

Primary Commodities: silver
Secondary Commodities: gold, lead
Deposit Type(s): Vein Polymetallic Ag-Pb-Zn+/-Au
Location(s): 63°57'7" N - -135°9'37" W
NTS Mapsheet(s): 105M14
Location Comments: location coordinates provided by Alexco
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

Staked as the Silver Basin cl (12836) in Aug/19 by R. Rasmussen, who explored with hand trenches and a short adit until 1927. It was purchased in Nov/48 by Silver Basin Yukon ML, which reorganized in 1949 into Cons. Yukeno ML, and to Yukeno ML in Feb/51. The claim was taken to lease (Lot 41) in Feb/58 and was sold in 1962 to Rio Plata Silver ML, which conducted hand trenching in 1963 and possibly geochem sampling in 1973. The Silver Queen and Ladie cl (Y6627) were staked immediately to the southwest of this occurrence sometime prior to 1971. Canadian Reserve Oil and Gas Ltd carried out geophysical surveying of these claims during 1971. The Silver Basin claims were acquired by Dawson Eldorado ML in 1986 and explored with bulldozer trenching. W. Malicky staked Silver Cirque cl (YB65552) on the east side of Lot 41 in Jul/96.

Capsule Geology

Minor galena and tetrahedrite occur with arsenopyrite in quartz-siderite gangue in a typical longitudinal-type branching vein system that cuts mainly quartzite and minor schist. The vein has a maximum width of 2.4 m and has been traced for 30 m. Rasmussen claimed to have identified three longitudinal and 3 transverse veins on the claim and to have obtained assays as high as 171 424 g/t Ag from grab samples. Dawson Eldorado reported assays ranging from 171.4 to 2 057.1 g/t Ag across widths of 0.5 to 2.5 m with specimens assaying up to 754.7 g/t Ag and 13.7 g/t Au.

References

CANADIAN RESERVE OIL AND GAS LTD, Apr/72. Assessment Report *#060941 by E.J. Wilson.

DAWSON DAILY NEWS, 27 Nov/22.

GEOLOGICAL SURVEY OF CANADA Bulletin 111, p. 51.

GEOLOGICAL SURVEY OF CANADA Summary Report 1924, Part A.

ROOTS, C.F., AND MURPHY, D.C., 1992. Geology of Mayo Map Area (105M). Geological Survey of Canada Open File 2483.

Work History

Date	Work Type	Comment
12/31/1986	Trenching	
12/31/1973	Other	
12/31/1963	Trenching	
12/31/1919	Trenching	
12/31/1919	Trenching	
12/31/1919	Other	
12/13/2019	Geochemistry	
12/13/2019	Geology	
12/13/2019	Geochemistry	
12/13/2019	Other	
12/13/2017	Airphotography	

12/13/2017	Geochemistry	
12/13/2017	Drilling	
12/13/2017	Geology	
12/13/2017	Geochemistry	
12/13/2010	Drilling	7 holes 1,104.57 m
12/13/2010	Trenching	
12/13/2010	Geochemistry	
12/13/2007	Geochemistry	
12/13/2007	Other	
12/13/2007	Ground Geophysics	
12/13/2007	Trenching	
12/13/2007	Other	
12/13/2007	Other	
12/13/2007	Development, Surface	
12/13/2006	Airphotography	
12/13/2006	Airphotography	
12/13/2006	Geochemistry	
12/13/2006	Development, Surface	
12/13/2006	Geology	
12/13/2006	Trenching	
12/13/2006	Airborne Geophysics	
12/13/2006	Development, Surface	
12/13/2006	Airborne Geophysics	
12/13/2006	Other	
12/13/2006	Pre-existing Data	
12/13/2006	Remote Sensing	
12/13/2006	Development, Surface	
12/13/1986	Lab Work/Physical Studies	
12/13/1986	Geochemistry	
12/13/1986	Geochemistry	
12/13/1986	Pre-existing Data	
12/13/1986	Geology	
12/13/1986	Other	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
095932	2011	Assessment Report on the 2011 Keno-Lighting Geophysical, Trench Mapping, Soil Geochemistry and Diamond Drilling Program	Electromagnetic - Airborne Geophysics, Reclamation - Development, Surface, Diamond - Drilling, Rock - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Environmental Assessment/Impact - Studies	25	1819.30
095661	2008	2008 Geological, Geochemical and XRF Assessment Report on the Keno Hill Property	Biogeochemistry - Geochemistry, Rock - Geochemistry, Soil - Geochemistry		
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		
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		
062258	1965	[Summary of the Peso Silver Mines Ltd. Properties]	Data Compilation - Pre-existing Data, Research/Summarize - Pre-existing Data, Resource Estimate - Studies		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC014862	Plan of survey of Premier, Dorothy, Tagish, Skookum, Cheechako, Papoose, Bra, Birch, Spruce Tillicum, Something Fr. & Wimpy Fr. mineral claims - Situated on the north-east slope of Galena Hill in the Mayo mining district		Property File Collection	Geoscience Map (General)
ARMC014860	Report on Rio Plata Silver Mines Limited - 1964 operations and development		Property File Collection	Report
ARMC014847	Report: Gold Hill No. 2, Silver Queen, Silver Basin No. 3 - Keno Hill, Mayo division of Dawson mining district, Yukon Territory		Property File Collection	Report
ARMC014858	Prospectus - Rio Plata Silver Mines Ltd. (N.P.L.) - Including reports on the Formo and Haggert Creek claim groups		Property File Collection	Report
ARMC014859	Notes on the holdings of Rio Plata Silver Mines in Silver Basin, Keno Hill, Yukon Territory		Property File Collection	Miscellaneous Company Documents
ARMC014846	Letter Re: property submission - Minexco Inc. - Silver claims, Dawson M.D., Keno Hill area		Property File Collection	Miscellaneous Company Documents
ARMC014864	Claim map - Rio Plata Silver Mines Ltd. N.P.L.		Property File Collection	Geoscience Map (General)
86-023	Report on the Geology, Geochemistry and Trenching of the Keno Hill Area Sub-Leases and Working Permits		Yukon Government: Energy, Mines and Resources	YMEP Report