Occurrence Details

Occurrence Number: 105M 014
Occurrence Name: Maybrun
Occurrence Type: Hard-rock
Status: Deposit
Date printed: 8/5/2025 2:21:39 PM

General Information

Primary Commodities: lead, silver
Deposit Type(s): Vein Polymetallic Ag-Pb-Zn+/-Au
Location(s): 63°53'54" N - -135°15'6" W
NTS Mapsheet(s): 105M14
Location Comments: location coordinates provided by Alexco
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

Staked as Tundra cl (12838) in Oct/19 by A. Johnston and adjoining Ram cl (13073) in Apr/20 by F. Chasni and Whipsaw cl (12966) in Jun/21 by S. Moreau. The Tundra claims were explored with hand pits by M. Malesich until 1926, by W.G. Hargraves from 1927-30 and with short shafts and adits by Treadwell Yukon Company Ltd from 1930-39. Johnston acquired the Ram claims in 1927 and sank a 30 m shaft in 1929 and later shipped about 272 tonnes of ore from it.
The Whipsaw claim was acquired by Bellekeno Mines Ltd prior to 1950 and an adit was driven on the claim (Bellekeno vein) in Dec/50. Over the next two years the company produced over 5 000 tonnes of high grade ore from the property.
Mayo Mines Ltd purchased the Ram claim in 1947, from which another 79.8 tonnes was shipped in 1949, and the Tundra claim in 1950, which was explored with two shafts (6.1 and 9.8 m) and a 25 m adit in 1951.
The company changed its name to Maybrun Mines Ltd in 1954 and leased the property to J. Holmstrom, who shipped about 31.8 tonnes in 1964 and to J.B. O'Neill, who bulldozer trenched in 1975 and optioned two thirds of his interest to Skidigate Resources Ltd in Aug/79. Skidigate carried out geochemical surveying and bulldozer trenching in 1980 and 1981 before returning its interest to O'Neill.
The Lem cl 1-11 (YA17395) were staked adjoining the Tundra claim to the southeast in Nov/77 and immediately transferred to Y. Lemieux. Lemieux subsequently sold the claims to Canada Tungsten Mining Corporation Ltd in Feb/79. Canada Tungsten carried out geological mapping and geochemical rock sampling of the claims in 1979 and geochemical soil sampling and prospecting in 1980.
Ownership of the Lem claims was transferred to Springmount Operating Company Ltd in May/87.

Capsule Geology

Silver-lead-zinc mineralization in the Elsa-Keno Hill mining camp occurs in north-northeast to east-northeast striking, steeply southeast dipping vein-faults located within a 23 km long by 6 km wide northeast trending belt of rocks on the south dipping limb of the McQuesten Antiform. The mineralized vein faults cut Devonian to Mississippian Earn Group phyllites, Mississippian Keno Hill quartzite and minor phyllite and Triassic meta-diorites. The vein-faults, are brittle displacement zones that show complex variations in style along their length. Narrow discrete planar fault segments pass into zones of tensional veining or shattered rock, brecciation and stockwork veining. The richest deposits occur in the vein-faults which cut the Keno Hill quartzites.
A vein crossing the Tundra and Ram claims is an extension of the Bellekeno transverse-type system. Galena, tetrahedrite and sphalerite occur with siderite gangue in erratic lenses within a vein that cuts the Keno Hill quartzite and ranges in width from about 10 cm to 2.1 m. The 1927 ore shipment graded about 6 857 g/t Ag and 40% Pb, while the 1949 shipment averaged about 10 285 g/t Ag.
Sampling on the Lem claims by Canada Tungsten delineated several areas of anomalous lead, zinc and silver geochemical response. Peak values of 254 ppm Pb, 18.4 ppm Ag and 286 ppm Zn were returned from the samples. Mineralization located during this work consisted of two samples collected from Lem cl 4, approximately 600 m northeast of the occurrence marker. One sample composed of a 15 cm sized fragment of quartz vein containing some coarse siderite assayed 2.05 g/t Ag with trace Au, while the other sample composed of quartz with minor galena returned 6.84 g/t Ag and 1.37 g/t Au.

References

BELLEKENO MINES LTD, Mar/52. Assessment Report #062126 by G.C. Campbell.

BOND, J.D., 1998. Surficial geology of Keno Hill, Central Yukon, NTS 105M14. Exploration and Geological Services Division, Indian and Northern Affairs, Canada, Geoscience Map 1998-4, 1:50 000-scale map.

CANADA TUNGSTEN MINING CORPORATION LTD, Apr/80. Assessment Report #090544 by T.M. Elliot.

CANADA TUNGSTEN MINING CORPORATION LTD, Nov/80. Assessment Report #090726 by D.N. Bonnar, G. Norman and K.E. Northcote.

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MURPHY, D.C. and ROOTS, C.F., 1996. Geological map of Keno Hill area, Central Yukon (105M/14). Exploration and Geological Services Division, Indian and Northern Affairs Canada, Geoscience Map 1996-5, 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. Bedrock geology of Mayo map area, central Yukon (105M). Exploration and Geological Services Division, Indian and Northern Affairs Canada, Geoscience Map 1997-1, 1:50 000-scale.

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.

Work History

Date	Work Type	Comment
12/31/1981	Trenching	
12/31/1981	Other	
12/31/1980	Trenching	
12/31/1980	Other	
12/31/1980	Other	
12/31/1979	Geology	
12/31/1979	Other	
12/31/1975	Trenching	
12/31/1964	Other	On Tundra claims.
12/31/1951	Other	Amount of work done: 40.8 METRES On Tundra claims.
12/31/1949	Other	
12/31/1939	Other	Carried out from 1931 through 1939.
12/31/1930	Trenching	
12/31/1930	Other	
12/31/1930	Other	Amount of work done: 30.5 METRES
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	

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
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
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		
090726	1980	Geological and Geochemical Report on the Lem 1-11 Claims	Soil - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other		
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		
090544	1979	Geological Report-Lem 1-11	Rock - Geochemistry, Detailed Bedrock Mapping - Geology, Property Evaluation - Other, Prospecting - Other		