



Occurrence Details

Occurrence Number: 106B 024
Occurrence Name: Birkeland
Occurrence Type: Hard-rock
Status: Prospect
Date printed: 12/16/2025 9:34:24 AM

General Information

Secondary Commodities: lead, silver, zinc
Aliases: Mom, Tom
Deposit Type(s): Sediment hosted Mississippi Valley-Type Pb-Zn (MVT)
Location(s): 64°8'33.78" N - -131°55'47.23" W
NTS Mapsheet(s): 106B04
Location Comments: Coordinates supplied by ATAC 2019
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

Staked as 176 Tom & Mum cl (Y96561) in Aug-Sep/74 by McIntyre ML, which explored with mapping and prospecting in 1974 and mapping, geochem sampling, hand trenching and 10 BQ holes (900.7 m) and 22 Winkie holes (325.8 m) in 1975. McIntyre entered a joint venture in 1978 with Can Superior EL.

Minor soil and silt sampling has been completed near the occurrence but work has been limited since 1976.

Capsule Geology

The occurrence is underlain by Late Proterozoic-Early Cambrian Hyland Group rocks. From bottom to top the sequence consists of of shale, sandstone, micrite, sandstone, shale and orange weathering dolomite. The micrite includes various carbonate rocks, variously bedded and brecciated, and in part dolomitic, cherty and/or oolitic. Zebra-textured dolomite is common in the are and is associated with deposition of red to dark green sphalerite. Galena is not generally common and pyrite is absent. Numerous small showings are present but the best (J35) was reportedly up to 121.9 m long, 15 m wide and assayed up to 25% combined lead-zinc. The best intersection (Hole 75-31) assayed 4.4% Zn, 0.5% Pb and 2.7 g/t Ag across 1.8 m.

Soil assays from 2012 returned up to 25 ppb gold and up to 2000 ppm arsenic.

Work History

Date	Work Type	Comment
12/31/1975	Geology	1:1 000 scale.
12/31/1975	Drilling	Twenty-two holes, 325.8 m.
12/31/1975	Geochemistry	Also some rock sampling.
12/31/1975	Trenching	
12/31/1974	Geology	
12/31/1974	Other	
12/13/2012	Geochemistry	
12/13/2011	Geochemistry	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
096607	2012	Assessment Report Describing Metallurgical Testing, Wildlife Monitoring, Heritage Evaluation, and Water Quality and Climate Monitoring Surveys	Water - Geochemistry, Metallurgical Tests - Lab Work/Physical Studies, Environmental Assessment/Impact - Studies, Heritage/Archeological - Studies		
096597	2012	Assessment Report Describing Geochemical Sampling, Auger Sampling, Geological Mapping, Diamond Drilling, and Geophysical Surveys	Air Strip - Development, Surface, Auger - Drilling, Diamond - Drilling, Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics, Gravity Survey - Ground Geophysics, Magnetics - Ground Geophysics, Prospecting - Other, Hand - Trenching	172	37340.37
095938	2011	Assessment Report Describing Geochemical Sampling, Geological Mapping and Remote Sensing Surveys at the Rackla Gold Property	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, LIDAR - Remote Sensing, Heritage/Archeological - Studies		
			Diamond - Drilling, Soil - Geochemistry, Detailed Bedrock Mapping -		

090080	1975	Geological and Geochemical Report on Tom and Mon Claims	Diamond - Drilling, Soil - Geochemistry, Detailed Geologic Mapping - Geology, Mechanical - Trenching	5	678
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Drill core at YGS core library

Number	Property	Year Drilled	Core Size	Photos	Data
DDH-75-15	Birkeland	1975	BQ	0	0