Occurrence Details

Occurrence Number: 105M 147
Occurrence Name: Bighorn
Occurrence Type: Hard-rock
Status: Prospect
Date printed: 12/16/2025 3:20:46 PM

General Information

Secondary Commodities: lead, silver, tin
Aliases: Haldane
Deposit Type(s): Vein Polymetallic Ag-Pb-Zn+/-Au
Location(s): N - W
NTS Mapsheet(s): 105M13
Location Comments: Georeferenced from AR 097337 (Figure 4).
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

Staked as HAO cl 1-289 by Equity Resources in 2011 and optioned to Habanero Resources.

Alianza Minerals Ltd. entered a purchase agreement in 2018 to purchase the HAO claims from Equity. In 2018, they carried out rock and soil geochemistry on the claims leading to the discovery of the Bighorn occurrence. In 2019, they completed diamond drilling of one hole (351 m), prospecting, trenching and bedrock mapping at the Bighorn occurrence.

Regional & Property Geology

The Mt. Haldane area is underlain by the early Carboniferous Keno Hill quartzite. The quartzite overlies mid to late Devonian Earn Group quartz- and feldspar-phyric chloritic phyllite metavolcanics (Roots, 1997). Carbonaceous Earn Group phyllite and siltstone underlie the metavocanics. A large regional thrust fault, the Robert Service Thrust, is present in the area, which puts Keno Hill quartzite into thrust contact with Proterozoic Hyland group phyllite and schist. Numerous Triassic age metadiorite sills intrude both the Keno Hill quartzite and Earn Group rocks located around the occurrence. Several small Cretaceous age granitic dykes and intrusions also intrude the sequence (AR 097320).

Mineralization & Results

The Bighorn occurrence is marked by a 900 m by 150 m, north-south trending Pb-Ag-Sn soil anomaly, Mapping and trenching in 2019 indicated the anomaly is associated with north-south striking faults and/or silicified breccia zones in lower Keno Hill Formation quartzite and phyllite. Mineralization consists of siderite-quartz-galena-sphalerite veins and/or breccia fillings (Alianza Minerals Ltd., News Release, 22 Oct/2019).

Drilling in 2019 intersected mineralization associated with faulting of gossanous, sheared and brecciated phyllitic quartzite with up to 3% galena. Hole HLD19-15 intersected 6.6 m of 50.1 g/t Ag, 1.85% Pb, 0.09% Zn, and 0.004 g/t Au over 6.6 m, including 4.39% Pb and 125/7 g/t Ag over 2.35 m (Alianza Minerals Ltd., News Release, 22 Oct/2019).

Work History

Date	Work Type	Comment
12/13/2019	Trenching	
12/13/2019	Geochemistry	Chip and grab sampling.
12/13/2019	Drilling	One hole, 351 m.
12/13/2019	Geology	
12/13/2019	Geochemistry	
12/13/2019	Other	
12/13/2018	Geochemistry	
12/13/2018	Geochemistry	

Related References

Number	Title	Page(s)	Reference Type	Document Type
7	Geology of the Mayo Map Area, Yukon Territory (NTS 105M)		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Bulletin
GM1996-4	Geological Map of Mt. Haldane area, Yukon (105M/13)		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Geoscience Map (Geological - Bedrock)