



Occurrence Details

Occurrence Number: 105M 149

Occurrence Name: Middlecoff

Occurrence Type: Hard-rock

Status: Deposit

Date printed: 10/3/2025 8:50:50 PM

General Information

Secondary Commodities: gold, lead, silver, zinc

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

Silver-lead mineralization was probably found on Mt Haldane prior to 1906 and was staked as Lookout, etc cl (2332) in March 1915 by A. Johnson and J.V. Smith. The south (Middlecoff) zone was explored by surface trenching and two short adits prior to 1918 and was optioned in 1919 to Yukon Silver-Lead Mining Company Ltd., which drove a third adit and shipped 24.7 tonnes grading 3 101.7 g/t Ag and 59% Pb in 1920.

Re-staked by E. Bleiler and M. Ewing in October 1944 as Middlecoff cl (55320) which was optioned in 1952 to Lookout Mountain Mines Ltd., and in 1964 to Silver Titan Mines Ltd, which added DB, May, Ted, etc cl (83403) in May 1964 and conducted geochemical sampling, bulldozer trenching and adit rehabilitation.

The property was transferred to Haldane Silver Mines Ltd in 1966 and the Middlecoff and Johnson zones were explored by 701 m of overburden drilling and 533.4 m of underground drilling mainly at Middlecoff. In 1968, Paramount Mining Ltd acquired control of Haldane Silver Mines Ltd.

Re-staked as Middlecoff, etc cl (YA1913) in April 1967 by M.H. Ewing and optioned in 1978 by Barry Way, who added Gopher, etc. cl (YA17722) in April and performed grid soil sampling, bedrock mapping and prospecting in 1978-1979.

Re-staked as Black cl 1-163 (YC02090) in November 1999 by Expatriate Resources Ltd. which carried out a cursory examination of the veins in 2000.

Re-staked and consolidated as Haldane cl 1-99 by Equity Exploration Consultants Ltd. in 2008 who carried out rock geochemistry and bedrock mapping. Equity optioned the claims to Habanero Resources Inc. in 2010 who carried out bedrock mapping and diamond drilling (1 hole, 126.39 m). Habanero carried out diamond drilling (2 holes, 467.6 m), prospecting, bedrock mapping and soil geochemistry in 2011.

Alianza Minerals Ltd. entered a purchase agreement in 2018 with Equity for the Haldane claims. Alianza carried out rock and soil geochemistry and bedrock mapping in 2018 and diamond drilling (2 holes, 387 m) and bedrock mapping in 2019.

In 2020, Alianza drilled 4 holes for 798.6 m, 2 holes in the Mt Haldane target and 2 in the Middlecoff target.

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 metavolcanics. 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 Mt. Haldane vein system contains three main mineralized zones, named from north to south, Middlecoff, Johnson (MINFILE occurrence 105M 149), and Haldane (MINFILE occurrence 105M 032) zones. All three zones appear to be part of a single, north-trending, transverse type vein fault with many branches, which cuts the Mississippian aged, Keno Hill quartzite. The vein faults are located in the footwall of the Robert Service Thrust and are believed to cut the thrust and continue into the Hyland Group, although no significant silver mineralization has been discovered above the thrust. Mineralization within the system is primarily galena with manganiferous siderite gangue (AR 095930). Surface mineralization is hosted by manganese and iron oxides breccias (AR 097230).

The Middlecoff Zone is the best mineralized, containing erratic lenses of galena, sphalerite and minor tetrahedrite. Ore shoots are small with the longest being a 13.7 m length grading 774.8 g/t Ag, 18.0% Pb, and 1.2% Zn over a 0.975 m width. Haldane Silver Mines Ltd drifted the Middlecoff vein south to a right hand fault and drilling beyond the fault located the offset which assayed 2 790.8 g/t Ag and 18.7% Pb over a 1.2 m width followed by 0.9 m grading 342.8 g/t Ag and 7.1% Pb.

Prospecting in 2008 at Middlecoff returned grades of up to 5030 g/t Ag and 55.5% Pb from the adit dumps (AR 095638).

Diamond drilling by Habanero in 2010 and 2011 encountered zones of mineralization including: 101.1 g/t Ag, 0.7% Pb, 0.7% Zn and 0.352 ppm Au over 2 m in HLD10-02 (AR 095682) and 36.7 g/t Ag, 0.943% Pb, 6.107% Zn, and 0.028 ppm Au over 4.1 m (AR 095930).

Diamond drilling in 2019 encountered a 0.35 m section of 996 g/t Ag, 28.35% Pb, 0.53% Zn and 1.486 g/t Au in HLD19-16 strongly oxidized, fractured and broken core with fault gouge (Alianza Minerals, News Release, 1 Nov/2019).

Work History

Date	Work Type	Comment
7/1/2020	Drilling	2 holes, 275.0 m
7/1/2020	Geochemistry	

12/13/2019	Drilling	Two holes, 387 m.
12/13/2019	Geology	
12/13/2019	Geochemistry	
12/13/2018	Geochemistry	Grab sampling.
12/13/2018	Geology	
12/13/2018	Geochemistry	
12/13/2011	Geochemistry	Prospecting grab samples.
12/13/2011	Drilling	Two holes, 467.6 m.
12/13/2011	Geology	
12/13/2011	Geochemistry	
12/13/2011	Geochemistry	
12/13/2011	Other	
12/13/2010	Drilling	One hole, 126.39 m.
12/13/2010	Geology	
12/13/2010	Geochemistry	
12/13/2008	Geochemistry	Prospecting grab samples.
12/13/2008	Geology	
12/13/1979	Geochemistry	Prospecting grab samples.
12/13/1979	Geology	
12/13/1979	Geochemistry	
12/13/1978	Geochemistry	Prospecting grab samples.
12/13/1978	Geology	
12/13/1978	Geochemistry	
12/13/1966	Drilling	533.4 m of underground drilling.
12/13/1966	Drilling	701 m of overburden drilling between the Middlecoff and Johnson zones.
12/13/1964	Geochemistry	
12/13/1964	Trenching	
12/13/1918	Trenching	
12/13/1918	Development, Underground	Two adits were sunk prior to 1918.

Related References

Number	Title	Page(s)	Reference Type	Document Type
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)