



## Occurrence Details

**Occurrence Number:** 106E 002

**Occurrence Name:** Irene

**Occurrence Type:** Hard-rock

**Status:** Prospect

**Date printed:** 12/16/2025 5:58:38 AM

## General Information

**Secondary Commodities:** copper, uranium

**Deposit Type(s):** Iron Oxide Breccias & Veins (Wernecke Breccias)

**Location(s):** 65°4'42" N - 134°15'5" W

**NTS Mapsheet(s):** 106E01

**Location Comments:** .5 Kilometres

**Hand Samples Available:** Yes

**Last Reviewed:**

### Capsule

#### Work History

Probably first staked in Oct/1910 as Irene cl (12046), although the description given by the staker is somewhat vague. Staked as Key cl (Y32539) by G. Van Bibber in Jun/69 and optioned by Bonnet Plume River ML, which carried out mapping and prospecting and drilled 8 holes (556.0 m) in 1969-70. Restaked as Key cl (Y85748) in Oct/73 by Van Bibber, who performed minor trenching from 1974 to 1976.

The property was overstaked in Nov/75 by Wernecke JV (Chevron Can L & Aquitaine) as Chalco cl (YA1431), which were abandoned in Jul/76. The showing was restaked in Oct/78 as Tag cl (YA38318) by Van Bibber and associates, who transferred 50% to S. Jones and 50% to P. Van Bibber in Dec/87.

Restaked by Pamicon Developments Ltd as part of a large block of Hoover 1-114 cl (YB28692) between July and October, 1992. Pamicon formed a joint venture with Equity Engineering Ltd and Westmin Resources Ltd and explored with geological mapping, geochemical sampling and geophysics between June and Sep/93. The Hoover 115-186 cl (YB22704) were added in Oct/93. The joint venture partners transferred 100 % interest in the Hoover claims to Westmin Resources Ltd in Jan/94. Westmin then formed a joint venture with Newmont Exploration Ltd.

Between June and Sept/94, the joint venture group drilled five holes (1178 m) on Hoover cl 1 and 3 (YB28692). In Jun/95 the joint venture group drilled 3 diamond drill holes on the Hoover claim block. All 3 holes were drilled near the showing.

#### Capsule Geology

The region is underlain by a metamorphosed and altered sequence of Early Proterozoic Wernecke Supergroup clastic and carbonate rocks (Fairchild Lake Group, Quartet Group and Gillespie Lake Group, from oldest to youngest) that are intruded by Early to Middle Proterozoic mafic sills and dykes, and cut by Middle Proterozoic Wernecke Breccia. To the east, Wernecke Supergroup rocks are unconformably overlain by Middle Proterozoic Pinguicula Group rocks. According to Thorkelson (2000), Wernecke Breccia development is best modeled as a set of hydrothermal and/or phreatic breccias; brecciation being caused by explosive expansion of volatile-rich fluids. Hunt (2005) attributed Wernecke Breccia formation to periodic overpressuring of dominantly basinal fluids, which lead to repeated brecciation of host strata and mineral precipitation.

The claims are underlain by Early Proterozoic limy argillite of the Quartet Group cut by Wernecke Breccia. Chalcopyrite and pyrite are weakly disseminated in the breccia and also occur with siderite gangue in lenses, blobs or streaks in peripheral fault zones and fracture stockworks. The best area of mineralization, exposed in a trench about 45 m above the valley floor, was a core of fairly massive chalcopyrite about 3 m wide within a fracture zone about 22.9 m wide that pinches out abruptly uphill and is obscured by talus downhill.

Drilling testing of the two most accessible zones showed average grades of 3.6% Cu over a true width of 3.1 m in a fault zone and 0.23% Cu over 64.9 m in the breccia. Minor brannerite is disseminated within and peripheral to the breccia.

Drill logs for 3 diamond drill holes representing 410 m were filed for the Hoover claim block.

#### References

BONNET PLUME RIVER MINES LTD, Oct/69. Assessment Report #060187 by J.G. Simpson and J.F. Pagella.

HEON, D., 2006. Isotope dating of lead-zinc occurrences in the Bonnet Plume area, Preliminary Report, Yukon Geological Survey, Open File 2006-16.

GEOLOGICAL SURVEY OF CANADA Paper 76-1A, p. 132.

GORDEY, S.P. AND MAKEPEACE, A.J., 2003. Yukon Digital Geology, version 2.0, S.P. Gordey and A.J. Makepeace (comp); Geological Survey of Canada, Open File 1749 and Yukon Geological Survey, Open File 2003-9 (D).

PAMICON DEVELOPMENTS LTD, Sept/94. Assessment Report #093223 by M. Jones and K. Hofmann.

PAMICON DEVELOPMENTS LTD, Nov/95. Assessment Report #093435 by M.A. Stammers.

THORKELSON, D.J. AND WALLACE, C.A., 2000. Geology and mineral occurrences of the Slat Creek, Fairchild Lake and Dolores Creek areas, Wernecke Mountains, Yukon (106D/16, 106C/13, 106C/14). Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Bulletin 10, 73 p.

WESTMIN RESOURCES LTD, Dec/92. Assessment Report #093123 by M.A. Stammers.

WESTMIN RESOURCES LTD, Jan/94. Assessment Report #093173 by M.A. Stammers.

YUKON EXPLORATION & GEOLOGY 1995, p. 12, 16.

### Work History

Date	Work Type	Comment
12/31/1996	Trenching	
12/31/1995	Drilling	Three holes, 410 m.
12/31/1994	Drilling	Five holes, 1,178 m.
12/31/1993	Geochemistry	
12/31/1993	Geology	
12/31/1993	Geochemistry	
12/31/1993	Ground Geophysics	Also magnetic survey.
12/31/1975	Trenching	
12/31/1974	Trenching	
12/31/1969	Drilling	Eight holes, 555.95 m.
12/31/1969	Geology	
12/31/1969	Other	

### Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
<a href="#">095646</a>	2007	2007 Geological, Geochemical and Geophysical Report on the Wernekes Project	Diamond - Drilling, Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Regional Bedrock Mapping - Geology, Magnetics - Ground Geophysics, Scintillometer - Ground Geophysics, Prospecting - Other, Backhoe - Trenching, Hand - Trenching, Handblast - Trenching	28	6537.96
<a href="#">094956</a>	2006	2006 Geological, Geochemical and Geophysical Report on the Wernekes Project	Reverse Circulation - Airborne Geophysics, Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Scintillometer - Ground Geophysics, Prospecting - Other		
<a href="#">093435</a>	1995	1995 Diamond Drilling Report on the Hoover Mineral Claims	Diamond - Drilling	3	409.40
<a href="#">093223</a>	1994	[1994 Diamond Drilling Logs and Assay Results for Hoover Claims]	Diamond - Drilling, Drill Core - Geochemistry	5	1124.24
<a href="#">093173</a>	1993	1993 Summary Report on the Hoover 1-114 Claims	Orthophoto - Airphotography, Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, IP - Ground Geophysics, Magnetics - Ground Geophysics, Line Cutting - Other		
<a href="#">093114</a>	1992	1992 Geochemical Report on the Hoover 1-8 Mineral Claims	Rock - Geochemistry, Bedrock Mapping - Geology		
<a href="#">061618</a>	1969	Bonnet Plume River Mines Ltd. Geological Report - Key Claims Property	Diamond - Drilling, Rock - Geochemistry, Bedrock Mapping - Geology	8	434
<a href="#">060187</a>	1969	Bonnet Plume River Mines Ltd. Geological Report - Key Claims Property	Diamond - Drilling, Drill Core - Geochemistry, Rock - Geochemistry, Bedrock Mapping - Geology	5	434.04