



Occurrence Details

Occurrence Number: 105G 024

Occurrence Name: God

Occurrence Type: Hard-rock

Status: Anomaly

Date printed: 12/16/2025 9:31:19 PM

General Information

Secondary Commodities: copper, zinc

Deposit Type(s): Unknown

Location(s): 61°34'24" N - -131°16'31" W

NTS Mapsheet(s): 105G11

Location Comments: 1 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Staked as God cl 1-30 (Y7894) in May/66 following airborne mag and EM surveys by Atlas Explorations Ltd, which carried out geochemical sampling and mapping later in the year. Hudson Bay Exploration and Development Company Ltd staked Bev cl 33-88 (Y83522) 3.2 km to the west in Oct/74 following airborne surveys, and bulldozer trenched in 1976. Cominco Ltd staked Nim cl 1-15 (YB51007) 2 km northwest of the map location in July/94 based on an airborne EM anomaly detected from a survey flown by the company. Cominco carried out a small exploration program later in the summer. In Jul/97 Cominco optioned the claims to Pacific Bay Minerals Ltd which carried out a reconnaissance exploration program later in the year. In Nov/98 Pacific Bay terminated its option and returned the claims to Cominco.

Capsule Geology

The Finlayson Lake district is underlain by the Yukon-Tanana Terrane: a Late Proterozoic to Paleozoic metamorphosed volcano-sedimentary assemblage. It is regionally bounded to the southwest by the Tintina Fault. This terrane hosts several known volcanogenic massive sulphide (VMS) deposits and occurrences, including Kudz Ze Kayah (Minfile Occurrence #105G 117), Wolverine (Minfile Occurrence #105G 072) and Ice (Minfile Occurrence #105G 118).

The area has not yet been re-mapped by the Yukon Geology Program. Comparison of field observations recorded by Atlas, Hudson Bay, Cominco and Pacific Bay, with compilation mapping by Gordey and Makepeace (1999), and detailed mapping completed by Murphy and Piercey (1999) to the southeast suggests that the area is underlain by a sequence of Devonian to Mississippian metavolcanic and metasedimentary rocks which have not yet been assigned a specific succession.

The God claims were staked in an area of extensive overburden. Bedrock consists of a layered sequence of metamorphosed sedimentary and volcanic rocks. The sequence is flanked to the southwest by porphyritic biotite-quartz monzonite belonging to one of several possible Mississippian aged metaplutonic suites. Soil sampling outlined several Cu-Zn anomalies (highest value, Cu = 160 ppm, Zn = 174 ppm), none of which were judged important enough to warrant follow-up work.

Cominco staked the Nim claims to explore for volcanogenic massive sulphide mineralization similar to that found at Kudz Ze Kayah (Minfile Occurrence #105G 117). The claims are underlain by mafic metavolcanics and metasedimentary rocks. Staff described the sequence as consisting of variably iron carbonate altered, fissile chlorite feldspar+quartz phyllite and phyllitic schists with minor intercalated grey to black argillites. Soil sampling outlined several weak Cu anomalies (53-67 ppm). Prospecting failed to uncover any significant mineralization. Follow-up exploration work carried out by Pacific Bay identified weak, disseminated pyrite/pyrrhotite mineralization in two float samples of mafic metavolcanic rock, but geological mapping and prospecting failed to locate any economically significant mineralization.

References

ATLAS EXPLORATIONS LTD, Jun/67. Assessment Report #017488 by J.S. Brock

ATLAS EXPLORATIONS LTD, Jun/67. Assessment Report #017489 by J.S. Brock.

COMINCO LTD, Jan/96 Assessment Report #093326 by P.A. MacRobbie.

GORDEY, S.P., AND MAKEPEACE, A.J., 1999. Yukon Digital geology, S.P. Gordey and A.J. Makepeace (comp.); Geological Survey of Canada, Open File D3826, and Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open File 1999-1 (D)

MINERAL INDUSTRY REPORT 1975, p. 166-167; 1976, p. 205.

MURPHY, D.C. and PIERCEY, S.J., 1999. Geological map of parts of Finlayson Lake (105G/7, 8 and parts of 1, 2, and 9) and Frances Lake (parts of 105H/5 and 12) map areas, southeastern Yukon (1:100 000-scale). Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open File 1999-4.

MURPHY, D.C. AND PIERCEY, S.J., 2000. Syn-mineralization faults and their re-activation, Finlayson Lake massive sulphide district, Yukon-Tanana Terrane, southeastern Yukon. In: Yukon Exploration and Geology 1999, D.S. Emond and L.H. Weston (eds.), Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p. 55-66.

PACIFIC BAY MINERALS LTD, Jul/98. Assessment Report #093859 by F. Moyle and G. Wesa.

Work History

Date	Work Type	Comment
12/31/1997	Geology	
12/31/1997	Geochemistry	Also rock sampling.
12/31/1997	Other	

12/31/1994	Geology	
12/31/1994	Geochemistry	
12/31/1994	Other	
12/31/1976	Trenching	
12/31/1966	Geology	
12/31/1966	Geochemistry	
12/31/1966	Airborne Geophysics	Also magnetic survey.
12/13/1994	Airborne Geophysics	Also magnetic survey, regional.
12/13/1976	Drilling	Five holes, 1,956 m.
12/13/1975	Drilling	Seven holes, 2,359 m.
12/13/1975	Ground Geophysics	Also magnetic survey.
12/13/1974	Airborne Geophysics	Also magnetic survey.

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
060148	1972	Geology and Geochemistry, Hoo Occurrence	Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology		
017489	1966	Geochemical Soil Sampling Surveys, God Mineral Claim Group	Soil - Geochemistry		
017488	1966	Magnetic and Electromagnetic Geophysical Surveys, God Mineral Claim Group	EM - Ground Geophysics, Magnetics - Ground Geophysics, Line Cutting - Other		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC014099	GX grid - Field copy - Geochemical results - R-74 - Grass Lakes		Property File Collection	Miscellaneous Company Documents
ARMC014065	Aero Mag-EM survey staking location - Grass Lake area - Gun, God, Gil claims		Property File Collection	Geophysical Map
ARMC014094	Airborne compilation - Grass Lakes area - Gun claims		Property File Collection	Geophysical Map
ARMC014098	Ground EM - Grid GZ - Gun mineral claims - Grass Lakes area		Property File Collection	Geophysical Map
ARMC014095	Ground mag contour - Grid GZ - Gun group - Grass Lakes area		Property File Collection	Geophysical Map
ARMC014093	Geochemical soil survey data sheets - Grass Lakes - Gun claims		Property File Collection	Miscellaneous Company Documents
ARMC014091	Geochemical stream sediment survey data sheets - Grass Lakes - God claims		Property File Collection	Miscellaneous Company Documents
ARMC014092	Analytical work sheets - Geochemical - Report No. R52-66 - Gun claims		Property File Collection	Miscellaneous Company Documents
ARMC014100	Analytical work sheets - Geochemical - Report No. R74 - Grassy Lakes		Property File Collection	Miscellaneous Company Documents
ARMC014096	Mag contours - Grid GZ - Gun group - Grass Lakes area		Property File Collection	Geophysical Map
ARMC014097	Mag. values - Grid GZ - Gun group - Grass Lakes area		Property File Collection	Geophysical Map
ARMC020528	Field notebook - Mag. BK IV - Gun claim group - Grid G-Z, God claim group - Grid G-W		Property File Collection	Miscellaneous Company Documents
ARMC020529	Field notebook - Mag. BK III - Gun claim group - Grid G-Z		Property File Collection	Miscellaneous Company Documents
ARMC014064	Electromagnetic map - God mineral claims - Grass Lake area, Yukon Territory		Property File Collection	Geophysical Map
ARMC014090	Atlas Airborne EM-mag. & photo geology - Grass Lake, God & Gun group		Property File Collection	Geophysical Map