



Occurrence Details

Occurrence Number: 105G 132
Occurrence Name: Neck
Occurrence Type: Hard-rock
Status: Anomaly
Date printed: 10/3/2025 6:42:18 PM

General Information

Secondary Commodities: barium, copper, lead, zinc
Deposit Type(s): Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn
Location(s): 61°57'10" N - -131°50'57" W
NTS Mapsheet(s): 105G13
Location Comments: .5 Kilometres
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

Staked as Neck cl 1-71 (YB49952) in Apr/95 by Cominco Ltd to cover geophysical anomalies outlined from an airborne geophysical survey flown earlier in the year. The following month company staked Pin cl 1-29 (YB49923) 3 km to the southeast (east of Weasel Lake). Cominco carried out reconnaissance geological mapping and grid soil sampling on both claim groups later in the year. In Jul/97 Cominco optioned the Neck and Pin claims to Pacific Bay Minerals Ltd which carried out reconnaissance exploration programs on both claim groups later in the year. In Nov/98 Pacific Bay dropped its option and returned the claims to Cominco.

Capsule Geology

Geological mapping (Murphy et al. 2001) shows the region is dominantly underlain by a package of Carboniferous(?) phyllite, chert, sandstone, grit and conglomerate (unit C?cs) of the Jules Creek Thrust footwall, unconformably overlain by Campbell Range Succession basalt. The occurrence is at the northwest end of the Finlayson Lake District. The nearby Ice occurrence (Minfile Occurrence #105G 118) is also hosted within the Campbell Range Succession. The northeast portion of the Neck claims appear to host Tertiary mafic volcanic rocks. Numerous faults juxtapose the various units against each other. No outcrop was found on the Pin claims.

Cominco and Pacific Bay found very little outcrop on the Neck claims. On the northeast side of the Neck claims, the company reported orange-brown-weathering, relatively fresh, undeformed, fine to medium-grained, equigranular pyroxene-olivine basaltic flows (Tertiary volcanics). In the central portion, the company found an area underlain by red to brown weathering, moderate to strongly silicified and Fe-carbonate altered, sheared ultramafic (listwanite?) with abundant green mica (mariposite?) and trace disseminated chromite and marcasite (Campbell Range Succession). Along the southern 15-20 % of the claim group, float samples suggest that the area is underlain by micaceous metasedimentary rocks (Devonian to Mississippian metamorphic rocks).

Neither company observed any outcrop on the Pin claims. Based on field observations and float samples recovered in the field the companies interpreted the northern half of the claim group to be underlain by Campbell Range Succession and the southern half by Devonian to Mississippian metamorphic rocks.

Soil sampling carried out by Cominco on the Neck claims outlined a weak Cu, Pb and Zn soil anomaly (this occurrence) near the southern boundary of the claim block. The soil anomaly is located proximal to an airborne EM conductor (no information available). Pacific Bay followed up Cominco's results with a line of soil samples through the middle of the anomaly but the samples did not return any anomalous results.

Soil sampling carried out by Cominco on the Pin claims failed to return any anomalies, which the company attributed to the presence of thick glacial overburden overlying the claim area. Follow-up exploration work by Pacific Bay failed to locate any areas of interest.

References

BOND, J.D., MURPHY, D.C., COLPRON, M., GORDEY, S.P., PLOUFFE, A., ROOTS, C.F., LIPOVSKY, P.S., STRONGHILL, G., AND ABBOTT, J.G., 2002. Digital compilation of bedrock geology and till geochemistry, northern Finlayson Lake map area, Southeastern Yukon (105G), Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Open File Report, 2002-7(D) and Geological Survey of Canada Open File 4243.

COMINCO LIMITED, Feb/95. Assessment Report #093341 by P. A. MacRobbie.

GEORGE CROSS NEWSLETTER, 16 May/97

HUNT, J.A., 2001. Volcanic-associated massive (VMS) mineralization in the Yukon-Tanana Terrane and coeval strata of the North American miogeoclinal, in the Yukon and adjacent areas. Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Bulletin 12, 107 p.

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.

MURPHY, D.C., COLPRON, M., GORDEY, S.P., ROOTS, C.F., ABBOTT, G., AND LIPOVSKY, P.S., 2001. Preliminary bedrock geological map of northern Finlayson Lake area (NTS 105 G) Yukon Territory (1:100 000 scale). Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Open File 2001-33.

MURPHY, D.C., COLPRON, M., ROOTS, C.F., GORDEY, S.P. AND ABBOTT, J.G., 2002. Finlayson Lake Targeted Geoscience Initiative (southeastern Yukon), Part 1: Bedrock geology. In: Yukon Exploration and Geology 2001, D.S. Emond, L.H. Weston and L.L. Lewis (eds.), Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, p. 189-207.

PACIFIC BAY MINERALS LTD, Jul/98. Assessment Report #093857 by F. Moyle and G. L. Wesa.

PACIFIC BAY MINERALS LTD, Jul/98. Assessment Report #093858 by F. Moyle and G. L. Wesa.

PACIFIC BAY MINERALS LTD, Press Release. 5 Jul/97

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Work History

Date	Work Type	Comment
12/31/1997	Geochemistry	Also soil and silt sampling.
12/31/1997	Geology	
12/31/1995	Geology	
12/31/1995	Geochemistry	
12/31/1995	Airborne Geophysics	Also magnetic survey.
12/31/1995	Other	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
093858	1997	Geological and Geochemical Report on the Neck Property	Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology		
093341	1994	1994 Assessment Report, Neck and Pin Properties	Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology		
090438	1978	Helicopter Magnetic and Electromagnetic Survey	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC016585	Geochemical map - 105G/13 - Weasel Lake		Property File Collection	Geochemical Map
ARMC016595	Geochemical results map - 105G/13 - Weasel Lake		Property File Collection	Geochemical Map
ARMC016593	Geochemical sample stations map - 105G/13 - Weasel Lake		Property File Collection	Geochemical Map
ARMC016594	Geology map - 105G/13 - Weasel Lake		Property File Collection	Geoscience Map (Geological - Bedrock)