Occurrence Details

Occurrence Number: 106D 054
Occurrence Name: Doublyou
Occurrence Type: Hard-rock
Status: Anomaly
Date printed: 12/16/2025 7:47:32 AM

General Information

Secondary Commodities: copper, lead, zinc
Deposit Type(s): Unknown
Location(s): 64°2'24" N - -134°28'12" W
NTS Mapsheet(s): 106D01
Location Comments: 1 Kilometres
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

United Keno Hill Mines Ltd staked 72 W claims (1 = 84142) in Mar/65 but five claims were refused leaving 68 non sequentially numbered claims being registered. The company carried out prospecting and grid soil sampling over the western end of the claim block later in the summer.

Capsule Geology

The occurrence area is located approximately 8 km southeast of Mount Patterson and surrounds an unnamed creek which flows southeast into the Laduc River. The area was regionally mapped by L. Green (1972) of the Geological Survey of Canada in 1961 as part of a helicopter-supported party known as Operation Ogilvie. The creek was also sampled for heavy minerals at this time as part of the Geological Survey of Canada's Operation Keno (1964). G. Abbott (1990) employed by Indian and Northern Affair's Exploration and Geological Services Division, Yukon Region (now part of the Yukon Geological Service) remapped topographic map sheet 106D 01 at 1:50 000 scale and C. Roots (1997) of the Geological Survey of Canada remapped adjoining topographic map sheet 105 M in the 1990's. Atna Resources Ltd (Holbek, et.al. 2001) majority owner (at that time) of the Marg deposit (Minfile Occurrence #106D 009) located approximately 4 km to the south released a detail geological map of the area which included this occurrence. Gordey and Makepeace (2003) released a geological compilation which included this area.
The area is mainly underlain by a sequence of metasedimentary and metavolcanic rocks assigned to Middle to Late Devonian Earn Group and a carbonate package assigned to the Lower Carboniferous Keno Hill Quartzite. At the southern end of the occurrence area a section of the Tombstone Thrust is theorized to cut across the area thrusting Upper Proterozoic to Early Cambrian Hyland Group metasedimenary rocks onto the Earn Group and Keno Hill Quartzite rocks. The presence of the Hyland Group rocks are argumentative. Abbott mapped them as being Devonian to Mississippian but Atna Resources geologists argue that the presence of blue quartz grains in the rocks, not observed in any of the overlying rocks and a description that matches the description of the Hyland Group rocks provided by Gordey (1990) for topographic map sheet 105M 16 located directly to the south, suggests that these rocks are older. Numerous Triassic mafic intrusions intrude the entire occurrence area.
United Keno Hill Mines carried out an extensive prospecting and grid soil sampling program in an attempt to determine the source of several anomalous heavy metal anomalies (highest = 325 ppm). Prospecting did not find any mineralization in place or as float. Soil sampling uncovered two small lead anomalies (highest = 1 600 ppm) with corresponding copper and zinc values. The area is known to have unusually high zinc background values which United Keno Hills interpreted to be the cause of the heavy metal anomalies found by the Geological Survey of Canada.

References

ABBOTT, J.G. 1990. Geological map of Mt. Westman map area (106D/1); Exploration and Geological Services Division, Yukon, Indian and Northern Affairs, Canada, Open File 1990-1.

GEOLOGICAL SURVEY OF CANADA Map 45-1965.

GORDEY, S.P. 1990. Geological map of the Tiny Island map area (105M16); Exploration and Geological Services Division, Yukon, Indian and Northern Affairs, Canada, Open File 1990-2.

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).

GREEN, L.H. 1972. Geology of Nash Creek, Larsen Creek and Dawson Map-Areas, Yukon Territory. Geological Survey of Canada, Memoir 364, p. 143.

HOLBEK, P.M. ET. AL. 2001. Structure and stratigraphy of the Marg volcanogenic massive sulphide deposit, north-central Yukon. In Yukon Exploration and Geology 2000, D.S. Emond and L.H. Weston (eds.) Exploration and Geological Division, Indian and Northern Affairs Canada, p. 319-333.

ROOTS, C.F., 1997a. Bedrock geology of Mayo area, central Yukon (105M0. Exploration and Geological Services Division, Indian and Northern Affairs Canada, Geoscience Map 1997-1, 1:50 000 scale.

ROOTS, C.F., 1997b. Geology of the Mayo Map Area, Yukon Territory (105M). Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Bulletin 7, 82p.

UNITED KENO HILL MINES LTD, Apr/66. Assessment Report *#017464 by R.E. Van Tassell.

Work History

Date	Work Type	Comment
12/31/1965	Geochemistry	Grid soil sampling.
12/31/1965	Other	

12/31/1964	Lab Work/Physical Studies	Conducted as part of Geological Survey of Canada Operation Keno.

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
096732	2014	Assessment Report Describing Metallurgical Test Pits, Metallurgical Auger Drilling, Geotechnical Auger Drilling, Geotechnical Study, Environmental Baseline Studies, Heritage Evaluation, and Water Quality and Climate Monitoring Surveys	Auger - Drilling, Water - Geochemistry, Metallurgical Tests - Lab Work/Physical Studies, Environmental Assessment/Impact - Studies, Geotechnical - Studies, Heritage/Archeological - Studies	9	96.77
093987	1998	Digital Topography, Landsat, and Colour Air Photo Survey over the Clark Claims]	Orthophoto - Airphotography, Rock - Geochemistry, Landsat - Remote Sensing		
092797	1989	Final Report, 1989 Field Program, Marg Property	Diamond - Drilling, Soil - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics, Magnetics - Ground Geophysics	5	1818.70
092682	1988	Summary Report, 1988 Field Program, Marg Property	Orthophoto - Airphotography, Air Strip - Development, Surface, Diamond - Drilling, Drill Core - Geochemistry, Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, EM - Ground Geophysics, Gravity Survey - Ground Geophysics, Magnetics - Ground Geophysics, Environmental Assessment/Impact - Studies	33	6037.50

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC005011	Preliminary report on the results of 1982 field work with recommendations for 1983 - ZX-Sentinel joint venture		Property File Collection	Report