Occurrence Details

Occurrence Number: 105G 126
Occurrence Name: Rbi
Occurrence Type: Hard-rock
Status: Prospect
Date printed: 12/16/2025 7:47:31 AM

General Information

Secondary Commodities: copper, lead, nickel, silver, zinc
Deposit Type(s): Volcanogenic Massive Sulphide (VMS) Besshi Cu-Zn
Location(s): 61°25'50" N - -130°37'12" W
NTS Mapsheet(s): 105G07
Location Comments: .5 Kilometres
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

Staked as RBI cl 1-46 (YB56316) in Oct/94 by D. Brett. In Jun/95 Brett transferred the RBI claims to A. Harmon who in turn optioned the claims to Demand Gold Ltd which carried out HLEM/magnetic geophysical surveys and a preliminary soil sampling program later in the year. In 1996 the company continued exploring the claims with geological mapping, geochemical and geophysical programs and in 1997 drilled 2 diamond drill holes (479.87 m) to test EM conductors associated with a weak magnetic anomaly and a strongly anomalous soil anomaly.

Capsule Geology

Geological mapping (Murphy et al. 2001) shows the area is dominantly underlain by a layered sequence of Devonian to Early Mississippian metavolcanic and metasedimentary rocks belonging to the Yukon-Tanana Terrane (YTT). The YTT is a volcanic-plutonic pericratonic arc assemblage that was strongly deformed and metamorphosed by Late Triassic time.
The area is underlain by layered biotite-plagioclase-actinolite-chlorite schist and lesser carbonaceous phyllite, quartzite and grey marble belonging to the Devonian to Early Mississippian Fire Lake mafic metavolcanic unit (unit DF). To the north unit DF is overlain by mainly felsic volcanic and metasedimentary rocks assigned to the Mississippian Grass Lakes Succession. This sequence is intruded by Mississippian age metaplutonic rocks (unit MGg) of the Grass Lakes Plutonic Suite.
Geological mapping completed by Demand Gold generally matches Murphy and Piercey's mapping of 1999. It shows that the southern half of the RBI claim block is covered by Quaternary unconsolidated sediments while the northern half is underlain by unit DF which has been intruded by metaplutonic rocks (unit MGg). The company noted felsic volcanics (probably unit DK) near the north-central claim boundary.
Ground geophysics outlined 3 distinct NE-SW trending HLEM conductors which were interpreted as fault zones. In places the conductors display weak magnetic association. Follow-up soil sampling returned strongly anomalous Cu, Zn and Pb values over the conductors (Mark, 1995; Wesa, 1997). The diamond drilling program was designed to test the combination of favourable stratigraphy, HLEM conductors, soil anomalies and fault structures. The first hole was collared in the mafic volcanics (unit DF) and intersected metasedimentary rocks and narrow bands of mafic metavolcanic rocks overlying metaplutonic rocks. The second hole was collared in the metaplutonic rocks and intersected metaplutonic rocks interbedded with thick mafic schist horizons. Both holes intersected abundant fault structures, which explained the HLEM anomalies. Neither hole intersected any sulphide mineralization 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.

DEMAND GOLD LTD, Apr/96. Assessment Report #093431 by D.G. Mark.

DEMAND GOLD LTD. May/98. Assessment Report #093798 by G. Wesa.

GEORGE CROSS NEWSLETTER, 16 Oct/95, 30 Nov/95, 8 Mar/96, 20 Mar/96, 12 Sep/96, 7 Aug/97.

HUNT, J.A., 1997. Massive Sulphide deposits in the Yukon-Tanana and adjacent Terranes. In: Yukon Exploration and Geology 1996, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p.33-45.

MURPHY, D.C. AND PIERCEY, S.J., 1999. Geological map 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, 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 1998: 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.

YUKON EXPLORATION AND GEOLOGY 1996, p. 18, 3. 1997, p. 17, 37-38.

Work History

Date	Work Type	Comment
12/31/1997	Drilling	Two holes, 480 m.
12/31/1996	Geology	
12/31/1996	Ground Geophysics	Also magnetic survey.
12/31/1996	Other	
12/31/1995	Geochemistry	
12/31/1995	Ground Geophysics	Also HLEM survey.
12/13/1997	Geology	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
097150	2017	2017 Geological, Geochemical, Geophysical, Diamond Drilling and Geotechnical Report o the Kudz Ze Kayah (KZK) Property	Diamond - Drilling, Soil - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics	48	4928.70
096898	2015	2015 Geological, Geophysical, Diamond Drilling and Environmental Report on the Kudz Ze Kayah Property	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Diamond - Drilling, Historical Drill Core - Geochemistry, Downhole Survey - Ground Geophysics, Gravity Survey - Ground Geophysics, Surveying - Other, Data Compilation - Pre-existing Data, Process/Interpret - Pre-existing Data, LIDAR - Remote Sensing	99	21279.70
094659	2005	Assessment Report Describing Prospecting on the TGI Property	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Prospecting - Other		
093798	1997	Geological and Diamond Drilling Report on the RBI Property RBI 1-46 Claims	Diamond - Drilling, Bedrock Mapping - Geology, Data Compilation - Pre-existing Data	2	479.87
093712	1996	1996 Assessment Report Kudz Ze Kayah Property Linecutting, Soil Geochemistry, Geological Mapping, Geophysical Surveying and Diamond Drilling	Diamond - Drilling, Regional Bedrock Mapping - Geology, EM - Ground Geophysics, Gravity Survey - Ground Geophysics, Magnetics - Ground Geophysics, Line Cutting - Other, Prospecting - Other	1	99.20
093431	1995	Geophysical/Geochemical Report on Horizontal Loop Electromagnetic and Soil Geochemistry Surveys over the RBI Claims	Soil - Geochemistry, EM - Ground Geophysics, Magnetics - Ground Geophysics		