Occurrence Details

Occurrence Number: 105B 149
Occurrence Name: DU 81-1
Occurrence Type: Hard-rock
Status: Prospect
Date printed: 12/16/2025 3:21:08 PM

General Information

Secondary Commodities: silver, tin, zinc
Deposit Type(s): Vein and Greisens Sn
Location(s): 60°12'34.89" N - -131°37'57.55" W
NTS Mapsheet(s): 105B04
Location Comments: Based on the drill collar of DDH K81-1 in AR 090971
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

Staked as part of a large block of DU claims (1-239) in 1978 by the Klinkit Joint Venture (DuPont of Canada Exploration Limited & Duval International Corporation), which explored with geological mapping and geochemical sampling in 1978. In 1979, further mapping and a grid soil survey 1 km to the west of the occurrence were carried out. A single drillhole was drilled at the occurrence in 1981 (DDH81-1), and rock sampling was undertaken to the southeast. The DuPont interest was transferred to CSA Minerals Inc in 1984 and to Goldsearch Inc in 1985. In 1993, prospecting occurred south of the occurrence. In 2014, Ucore flew a large airborne radiometric and magnetic survey over the region, covering almost the entire mapped extent of the Seagull Batholith. In 2018, the JC claims were staked to cover the occurrence and an airborne radiometric and magnetic survey was flown over the property.

Capsule Geology

This occurrence lies within a belt of Yukon-Tanana Terrane rocks. This belt of rocks is part of an accreted island arc assemblage consisting of biomodal volcanics, coeval plutons and sedimentary rocks, as well as younger Jurassic intrusive rocks and overlap assemblages and Cretaceous intrusions. The occurrence is hosted in mid-Cretaceous Seagull Batholith quartz monzonite.

Cassiterite occurs in a quartz fracture stockwork cutting a flat aplite dyke near the ceiling of the mid-Cretaceous Seagull batholith and in a small hornfelsed roof pendant of Triassic Jones Lake Formation calcareous metasedimentary rocks to the east.

The 1981 drillhole (10° azimuth; 121.4 m) tested a large zone of greisen alteration from which specimens assayed up to 0.5% Sn. Drilling intersected several narrow east-striking, steeply south-dipping vein zones of quartz, sphalerite, +/-galena, +/- pyrite The best intersections were two 1 m intervals assaying 0.4 and 0.2% Sn.

In 1981, rock sampling, uphill and ~300 m southeast of the occurrence at the Dupont Plateau Zone, returned values of 0.01% Sn, 188 g/t Ag and anomalous zinc and lead (sample 67661b; AR 090778).

Prospecting south of the occurrence in 1993, as part of a YMIP-funded (Yukon Mining Incentive Program) program uncovered rock samples with anomalous metal values. Grab sample 223030, 350 m south of the occurrence, assayed 142 ppb Au, 0.7 g/t Ag, 1.8% Pb, 0.55% Zn and 0.2% Bi.

Work History

Date	Work Type	Comment
12/13/2018	Airborne Geophysics	
12/13/2018	Airborne Geophysics	
12/13/1981	Geochemistry	sampling southeast of occurrence
12/13/1981	Drilling	1 hole, 121.4 m
12/13/1979	Geology	
12/13/1979	Geochemistry	Contour soils, south of the occurrence
12/13/1978	Geology	

Related References

Number	Title	Page(s)	Reference Type	Document Type
2004-2	Bedrock Geology, Dorsey Lake (NTS 105B/4), southern Yukon (1:50,000 scale)		Yukon Geological Survey	Open File (Geological - Bedrock)

Drill core at YGS core library

Number	Property	Year Drilled	Core Size	Photos	Data

K81-1	Swift	1981	NQ	16	3