



Occurrence Details

Occurrence Number: 105F 135

Occurrence Name: Ukon Showing 5

Occurrence Type: Hard-rock

Status: Showing

Date printed: 4/29/2025 2:38:00 PM

General Information

Primary Commodities: uranium

Aliases: Guano

Deposit Type(s): Unknown

Location(s): 61°30'18.62" N - -132°26'43.21" W

NTS Mapsheet(s): 105F09

Location Comments: Georeferenced from Map 14 in AR 095343 (p. 625).

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Staked as Guano, etc. cl (YA00242) in Jul-Sep/76 by Ukon Joint Venture (Chevron and Kerr Addition), which explored with mapping, geochem and radiometric surveys in 1976. In 1977, hand trenching and rock sampling was carried out. A ground radiometric grid survey and rock and chip sampling was undertaken over the occurrence in 1979. Restaked as PS cl (YB00978) in Aug/87 by Mountain Province Mining Inc, which took one rock sample from the claim block in an undisclosed location. In 2010, soil sampling took place just east of the occurrence and a helicopter radiometric survey was flown over the entire property.

Regional Geology

The occurrence is located on the Cassiar Platform, a curvilinear shelf that formed in the early Paleozoic, roughly parallel to the western margin of the North American craton but separated from it by the Selwyn Basin. Shallow marine miogeoclinal sediments were emplaced on the platform until Late Devonian time. Block faulting and local uplift during the Late Devonian and Mississippian resulted in deposition of carbonaceous shale and chert pebble conglomerate in the Selwyn Basin and across the platform. Local explosive volcanism produced volcanoclastic material and flows of the Pelly Mountains volcanic belt. The belt comprises localized submarine volcanic centres generated in an extensional environment that are separated by basins in-filled with sediments and volcanoclastic rocks. Several cogenetic syenite and trachyte domes and small stocks are the remains of vent areas. Subsequent deformation is a result of Mesozoic thrust faulting related to the Cordilleran orogeny, emplacement of Cretaceous intrusions and Tertiary strike-slip movement along the major northwest-trending Tintina Fault, 30 km to the northeast.

Property Geology

The occurrence is hosted in the Devonian syenitic True Blue pluton. It was first identified as showing #5 in AR 090269. Float rock that assayed 0.481% U3O8 was found at the site in 1976. Radioactivity is associated with fine-grained grey-green dykes cutting syenite. The best mineralized float appears to be from 3-4 cm wide quartz-rich veins in the syenite. Two hand trenches (80 cm deep) in 1977 did not reach bedrock. Two samples of the most radioactive quartz-rich float assayed 0.352% U3O8 and 0.481% U3O8. The radioactive float is sparsely distributed through the area. Uranium assays are less than the level of radioactivity would suggest, which could indicate that the major radioactive component is thorium, rather than uranium.

Grab samples and a profile of chip samples collected in 2010 as part of a rare earth exploration program did not return any samples with anomalous REE or Zr concentrations.

Work History

Date	Work Type	Comment
12/13/1987	Geochemistry	
12/13/1979	Ground Geophysics	
12/13/1979	Geochemistry	
12/13/1977	Geochemistry	
12/13/1977	Trenching	
12/13/1976	Ground Geophysics	
12/13/1976	Geochemistry	
12/13/1976	Airborne Geophysics	
12/13/1976	Geology	

Related References

Number	Title	Page(s)	Reference Type	Document Type
MIR1976	Mineral Industry Report 1976		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Geology	Annual Report
YEG1979 8 0-pg55	Rare earth elements in the Guano-Guayes skarn property Pelly Mountains, Yukon Territory		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report Paper

1979Chroni c	Geology of the Guano-Guayes rare earth element bearing skarn property, Pelly Mountains, Yukon Territory	University of British Columbia	MSc Thesis
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