## Occurrence Details

**Occurrence Number:** 115I 057
**Occurrence Name:** Granite Mountain
**Occurrence Type:** Hard-rock
**Status:** Prospect
**Date printed:** 12/16/2025 6:51:31 AM

## General Information

**Secondary Commodities:** copper, gold, molybdenum
**Deposit Type(s):** Vein Polymetallic Ag-Pb-Zn+/-Au
**Location(s):** 62°18'35" N - -136°58'29" W
**NTS Mapsheet(s):** 115I07
**Location Comments:** .5 Kilometres
**Hand Samples Available:** No
**Last Reviewed:**

### Capsule

Work History

Staked as March cl 1-8 (91829), cl 9-16 (91859), cl 17-24 (91945), cl 25-32 (91837), cl 33-36 (91867) and cl 37-44 (91871) in Apr/65 by Canex Aerial Exploration Ltd, which built an access road and explored with geochem surveys and bulldozer trenching in 1965; additional geochem, IP and mag surveys, bulldozer trenching and 2 rotary percussion holes (274.3 m) in 1966 and 6 diamond drill holes (944.9 m) in 1967.
Optioned in Jul/70-Aug/71 by Dawson Range Joint Venture (Straus Exploration Inc, Marietta Resources International Ltd, Molybdenum Corporation of America and BX Development Ltd (Trojan Consolidated Mines Ltd), which bulldozer trenched, soil sampled and drilled 299.6 m (4 holes) in 1971 in a joint venture with Mitsubishi Metal Mining Company Ltd.
Spokane National Mines Inc staked Tody cl 1-240 (Y48179) to the east in Jan/70 but did not explore them. The DC Syndicate (Dome Exploration Canada Ltd and Cominco Ltd) staked Won cl 1-16 (Y79548) to the northeast in Jul/74 and carried out grid soil sampling later in the year.
Restaked in Mar/88 as Windy cl 1-48 (YB12999) by L. Lebedoff, who performed mapping later that year.
R. Stack staked City cl 1-16 (YB13210) to the northwest and Swag cl 1-10 (YB13193) to the west in Mar/88. Stack carried out geological mapping on the City claims in the summer of 1989. He transferred the Swag claims to Lodestar Exploration Inc in Apr/89 which performed geological mapping and geochemical surveys later in the year.
Restaked Aug/91 as Leach 1-70 cl (YB36315) by Harris and Associates, which sampled in 1992, and restaked the Leach 25-30 cl (YB38007) and Leach 37-50 cl (YB38057) cl in Jun/93.
Pintail Minerals Ltd optioned the property in 1993 and performed geological mapping, prospecting, geophysical surveying, bulldozer trenching and soil and rock geochemistry.
The area surrounding this occurrence was chosen by the Little Salmon/Carmacks First Nation during land claims negotiations. The last of the Leach claims expired in Jun/1996. The First Nation finalized their Land claims agreement in July/1997. The occurrence now lies within a Category A Land Withdrawal, the rights of which is owned and controlled by the First Nation.

Capsule Geology

The area is located approximately 1 km northwest of Granite Mountain and approximately 45 km northwest of Carmacks, Yukon. The occurrence area is underlain by Early Jurassic foliated and non-foliated granodiorite assigned to the Granite Mountain batholith. The siliceous and foliated phases of the batholith are known hosts of copper-gold mineralization and pockets of Upper Cretaceous Carmacks Group volcanics are known to overlie the batholith.
The occurrence consists of a crudely arcuate, east-trending copper geochemical anomaly 1 500 m long and 60 to 240 m wide, associated with a mineralized breccia zone along the south side of the Granite Mountain batholith. The batholith is cut by a sill-like body of quartz porphyry and granitic dykes up to 30 m wide.
Chalcopyrite, and pyrite occur disseminated and in fracture veinlets around the margin of the stock, while molybdenite is present in quartz veinlets. Alteration varies from narrow zones of moderately intense propylitic to narrow sections of weak argillic and minor veinlet potassic facies. Phyllic alteration is mainly restricted to chloritic granite dykes. Incomplete surface leaching locally extends to depths of 73 m. A poorly developed supergene zone was found in two holes but was absent in others.
The best copper intersection was 0.31% copper across 12 m at the brecciated contact between porphyry and the stock in Canex Exploration's Hole 3 (1967). Supergene chalcocite was well developed there. Canex's Hole 1 cut 0.23% copper and 0.029% molybdenum disulphide ($MoS_2$) in a vein stockwork between 42.7 and 61.0 m. Average grade is about 0.1% copper equivalent. Further drilling and trenching by Archer, Cathro and Associates in 1971 outlined significant areas of brecciation and fracturing but failed to extend the mineralized zone.
On the Won claims, Cominco found only pyrite in fractured hornblende granodiorite. Preliminary sampling by Harris and Associates in 1991 was directed toward gold potential. Specimens of quartz-veined granite with chalcopyrite and pyrite contained up to 354 ppb gold.
The Pintail Minerals program in 1993 confirmed previous soil geochemical results for copper but also revealed coincident gold in soil anomalies in the 100-300 ppb range.

References

CANEX AERIAL EXPLORATION LTD, Mar/66. Assessment Report #019097 by B. Ainsworth and J. Adie.

CANEX AERIAL EXPLORATION LTD, Jul/67. Assessment Report #091332 by D. Howard and G. Percy.

CANEX AERIAL EXPLORATION LTD, Feb/72. Assessment Report#091333 by M. Phillips.

DAWSON RANGE JOINT VENTURE, Jun/71. Assessment Report #092570 by M.P. Phillips.

GEOLOGICAL SURVEY OF CANADA Paper 68-66, p. 34-35.

HARRIS, G., May/89. Assessment Report #092735 by B.A. Lueck.

HARRIS AND ASSOCIATES, Feb/93. Assessment Report #093080 by G.S. Davidson.

MINERAL INDUSTRY REPORT 1974, p. 121.

PINTAIL MINERALS LTD, Jul/93. Assessment Report #093130 by R.M. Diment.

## Work History

| Date | Work Type | Comment |
|---|---|---|
| 12/31/1993 | Geology | |
| 12/31/1993 | Ground Geophysics | Also VLF survey. |
| 12/31/1993 | Trenching | |
| 12/31/1993 | Other | |
| 12/31/1992 | Geochemistry | Also soil samples. |
| 12/31/1989 | Geology | |
| 12/31/1988 | Geology | |
| 12/31/1974 | Geochemistry | |
| 12/31/1971 | Drilling | Four holes, 299.6 m. All 4 holes. Assessment Report #091333. Contains map showing location of all drill holes including rotary. |
| 12/31/1971 | Geochemistry | |
| 12/31/1971 | Trenching | |
| 12/31/1967 | Drilling | Six holes, 944.88 m. Logs for Holes 1, 2, 4 and 5. Assessment Report # 091332. |
| 12/31/1966 | Drilling | Two holes, 274.32 m. |
| 12/31/1966 | Geochemistry | Also rock sampling. |
| 12/31/1966 | Ground Geophysics | Also magnetic survey. |
| 12/31/1966 | Trenching | |
| 12/31/1965 | Trenching | |
| 12/31/1965 | Development, Surface | |
| 12/13/1965 | Geochemistry | |

## Assessment Reports that overlap occurrence

| Report Number | Year | Title | Worktypes | Holes Drilled | Meters Drilled |
|---|---|---|---|---|---|
| 093130 | 1993 | Assessment Report on the Granite Mountain Property | All Weather Road - Development, Surface, Rock - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics, Magnetics - Ground Geophysics, Prospecting - Other, Mechanical - Trenching | | |
| 093080 | 1992 | Assessment Report on the Granite Mountain Property, Freegold Mountain Area | Rock - Geochemistry, Soil - Geochemistry, Prospecting - Other, Surveying - Other | | |
| 092735 | 1988 | Geological and Geochemical Assessment Report on the WINDY and CITY Claim Blocks | Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other | | |
| 091333 | 1977 | [Drill Hole Geological Logs on the MARCH Claims] | Diamond - Drilling | 4 | 300.53 |
| 092570 | 1971 | Dawson Range Joint Venture Summary Report Granite Mountain Property, Yukon | Diamond - Drilling, Drill Core - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, IP - Ground Geophysics, Surveying - Other, Data Compilation - Pre-existing Data | 4 | 299.60 |
| 091332 | 1967 | [1967 Diamond Drill Logs on the GRANITE MOUNTAIN Property] | Diamond - Drilling, Drill Core - Geochemistry | 4 | 698.30 |
| 019097 | 1965 | Geochemical Report MARCH Claim Group | Soil - Geochemistry | | |

## Related References

| Number | Title | Page(s) | Reference Type | Document Type |
|---|---|---|---|---|
| ARMC012946 | Report on the induced polarization and resistivity survey at the Granite Mountain project (Venture 79) - For Canex Aerial Exploration Ltd. | | Property File Collection | Report |
| ARMC012943 | Final report on Granite Mountain, Yukon Territory - File 11-2-47 | | Property File Collection | Report |
| ARMC012944 | Assay results - Granite Mountain | | Property File Collection | |
| ARMC012945 | Diamond drill logs - DDH-3 and DDH-6 - Granite Mountain | | Property File Collection | Drill Logs |