



Occurrence Details

Occurrence Number: 115N 023

Occurrence Name: Orion

Occurrence Type: Hard-rock

Status: Anomaly

Date printed: 12/16/2025 10:40:27 AM

General Information

Secondary Commodities: bismuth, gold

Deposit Type(s): Unknown

Location(s): 63°4'22" N - 140°33'32" W

NTS Mapsheet(s): 115N02

Location Comments: 1 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Staked as Orion cl 1-126 (Y45840) by Quintana Minerals Corporation Ltd in Dec/69 and explored by grid soil sampling, mapping and mag surveys in 1970.

Canadian United Minerals Incorporated staked Seven cl 1-50 (YC09667) 3 km to the south in May/99. Later in the month, the company added to their claim holding and restaked the occurrence within Seven cl 59-100 (YC09667). The company also staked Seven cl 101-116 (YC09759) 5 km to the south at the same time. During the winter of 1999, Canadian United collected numerous soil and silt samples on the claims and dug a shaft on Seven cl #7 (YC09673).

The Geological Survey of Canada carried out an airborne geophysical survey over the region in 2000 and 2001.

Capsule Geology

The area is located at the northwest end of the Yukon portion of the Yukon-Tanana terrane. The region is currently being remapped by Ryan and Gordey (2002, 2003) as part of the Ancient Pacific Margin NATMAP Project initiated by the Geological Survey of Canada, Yukon Geological Survey and British Columbia Geological Survey Branch. Although a final report has not yet been released, preliminary results are available.

The occurrence lies at the contact between Devonian to Mississippian and older (?) silica rich metasedimentary and metavolcanic rocks approximately equivalent to the Nasina Assemblage and a large Early Jurassic medium- to coarse-grained, foliated biotite-hornblende granodiorite intrusion. A large area of orthogneiss occurs to the southeast. The orthogneiss is derived from metaplutonic rocks and preliminary age dating returned a earliest Mississippian age. A large mid-Cretaceous granitic intrusion outcrops to the southwest.

No records could be found regarding Quintana's work program, however it appears they staked their claims to cover a small elliptical 100 gamma aeromagnetic anomaly. Canadian United staked the various Seven claims to cover the same magnetic anomaly and to cover a large granitic intrusion which they thought might be mid-Cretaceous in age. Preliminary mapping by Ryan and Gordey indicates the granitic intrusion is Early Jurassic in age.

The soil and silt sampling programs outlined several weak single station gold and bismuth anomalies. The shaft reached 5.6 m in depth before its progress was stopped by the presence of large boulders. Pan concentrated samples collected from various depths returned weakly anomalous results but none worth pursuing.

References

CANADIAN UNITED MINERALS INC, Sep/2000. Assessment Report #094214 by S. Ryan.

CANADIAN UNITED MINERALS INC, Sep/2000. Assessment Report #094215 by S. Ryan.

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).

RYAN, J.J. AND GORDEY, S.P. 2002. Bedrock geology of Yukon-Tanana terrane in southern Stewart River map area, Yukon Territory. Geological Survey of Canada, Current Research 2002-A1, 11 p.

RYAN, J.J. ET AL., 2003. Update on bedrock geological mapping of the Yukon-Tanana terrane, southern Stewart River map area, Yukon Territory. Geological Survey of Canada. Current Research 2003-A9, 7 p.

SHIVES, R.B.K. ET AL., 2002. Airborne multisensor geophysical survey, Stewart River area, Yukon Territory, Phase 1 and 2 (parts of 115 N, O and 116 B): 120 digital images of 1:50 000 (110) and 1:250 000 (10) scale color interval maps on CD-ROM, in Portable Document Format (PDF); Geological Survey of Canada, Open File 4311 (also Yukon Exploration and Geological Services Division, Open File 2002-17D).

Work History

Date	Work Type	Comment
12/31/2000	Geochemistry	
12/31/2000	Geochemistry	
12/31/1999	Geochemistry	
12/31/1999	Geochemistry	
12/31/1970	Geology	

12/31/1970	Geochemistry	
12/31/1970	Ground Geophysics	
12/13/2002	Airborne Geophysics	Also magnetic and VLF-EM survey flown by Geological Survey of Canada.
12/13/1999	Trenching	Dug shaft on Seven claim #7

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC016708	Geological map - 115N/2		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC012772	Hand written notes on 115-N-2 - Venus and Orion claims		Property File Collection	Miscellaneous Company Documents
ARMC012771	Aeromagnetic series - Map 4265G - 115-N-2 showing handdrawn geology with legend - Venus and Orion claims		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC012768	Aeromagnetic series - Map 4265G - 115-N-2 with geochemical results plotted and air photo overlay for photo number 12061-13		Property File Collection	Geochemical Map
ARMC012774	Aeromagnetic series - Map 4265G - 115-N-2 with Geology field sheet notations - Venus and Orion claims		Property File Collection	Geophysical Map
ARMC012770	Aeromagnetic series - Map 4265G - 115-N-2 with handdrawn geochemical notations		Property File Collection	Geochemical Map
ARMC012769	Aeromagnetic series - Map 4265G - 115-N-2 with handdrawn geology - Venus and Orion claims		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC012767	Air photo overlays and traverse plans map - 115-N-2 and 115-K-15. Air photos A12061-14, A12061-13, A12043-202, A12043-200, A11061-11, A12043-137, A-12043-138, A12043-139, A12061-12		Property File Collection	Geoscience Map (General)
ARMC020512	Field notes - Victor OEX - Thistle Creek - Aires claim		Property File Collection	Miscellaneous Company Documents
ARMC016707	Geochemical location and results map - 115N/2		Property File Collection	Geochemical Map