



Occurrence Details

Occurrence Number: 116G 082
Occurrence Name: Yukon Olympic
Occurrence Type: Hard-rock
Status: Prospect
Date printed: 4/29/2025 4:10:48 PM

General Information

Secondary Commodities: cobalt, copper, zinc
Aliases: Canadian Olympic, Devil, Hem
Deposit Type(s): Iron Oxide Breccias & Veins (Wernecke Breccias)
Location(s): 65°2'59" N - 138°8'8" W
NTS Mapsheet(s): 116G01
Location Comments: .5 Kilometres
Hand Samples Available: Yes
Last Reviewed:

Capsule

Work History

In Jul/93 Pamicon Developments Ltd and Equity Engineering Ltd staked the Devil cl 1-24 (YB45039) for the Monster Joint Venture. Later in the summer, Pamicon and Equity carried out a reconnaissance program consisting of prospecting, geological mapping and geochemical sampling. Restaked as Hem cl 1-4 (YC04098) and Hem cl 11-14 (YC04108) in Apr/97 by Canadian United Minerals Inc which also staked Hem cl 5-10 (YC04102) 2 km to the northeast at the same time and carried out prospecting on both claim blocks later in the year. Restaked as Hem cl 1-6 (YC19966) in May/2000 by Canadian United which carried out further prospecting and geochemical rock sampling in Jun/2000. The company then staked Hem cl 1-78 (YC20973) in Sep/2001 to the north and west and Hem cl 79-88 (YC21135) in Nov/2001 at the west end of the block. In May/2002 Copper Ridge Exploration Inc optioned the property and staked Hem cl 89-122 (YC21442) in Jun/2002 at the east end of the block; Heg cl 1-12 (YC21595) in Jul/2002 west of the Hem cl 1-6; Hem cl 123-335 (YC21615) across the north edge and at the west end of the previously optioned claim block; and Heg cl 13-20 (YC21607) in Aug/2002 between the Heg cl 1-12 and Hem cl 1-6. The company then carried out gravity and magnetometer surveying. In Sep/2002 Copper Ridge assigned the option agreement to Canadian Empire Exploration Corporation, which drilled 2 holes (773.43 m) in Nov/2002. Canadian Empire carried out deep penetrating I.P., detailed gravity surveys, magnetometer surveys and mobile metal ion (MMI) geochemical surveys on the eastern side of the property in the summer 2003 before terminating the option at the end of 2003. In Mar/2004 Copper Ridge optioned the property to Janina Resources Ltd., which immediately carried out additional detailed gravity, magnetics and IP surveys on the eastern end of the property. Drilling on the property in 2005 consisted of 503.6 m in five holes.

Capsule Geology

The occurrence is located near kilometer 150 of the Dempster Highway, on the east side of the Blackstone River. The occurrence is underlain by Lower Proterozoic Quartet group shale and siltstone that are intruded by gabbro and hematite breccia bodies. On the west side of the highway the Quartet Group rocks are unconformably overlain by a Paleozoic carbonate sequence comprised of predominantly massive to bedded limestone and dolostone which in turn are overlain by younger basinal shale and siltstone sequences. The hematitic bodies are known to be mineralized and their geological setting is thought to be permissive for hosting Olympic Dam Cu-U-Au-Ag breccia type deposits, also known as iron oxide copper-gold deposits. In 1993, a grab sample collected from the east side of the Blackstone River and consisting of visible copper mineralization in weakly carbonate-altered breccia containing 4% fracture controlled specular hematite assayed 1004 ppm copper, 52 ppm zinc and 28 ppm cobalt. A float sample collected from the west side of the property and consisting of dolomitic breccia assayed 2552 ppm zinc, 26 ppm copper, 22 ppm cobalt and 16 ppm lead. A copper-cobalt soil anomaly was also outlined on the west side of the claims. Prospecting in 2000 by Canadian United located chalcopyrite bearing hematitic breccia float on a small hill located along the Dempster Highway. Rock sampling returned peak values of up to 9310 ppm copper from selected samples. As part of its geophysical program Copper Ridge purchased historical gravity data collected from a series of airborne geophysical surveys completed by the Geological Survey of Canada in the mid-1960s. Extrapolation of the data outlined a distinct gravity high measuring approximately 9 kilometers in length, 3 km in width and possessing a maximum amplitude of between 4 and 5 milligals centered on the west side of the claim block. Two addition gravity highs are revealed on the east side of the claim block; one on the west side of and straddling the Blackstone River and one more or less coincident with the Spectacular Creek hematite breccia showing. These gravity highs have amplitudes of approximately 2 milligals. The ground magnetics and gravity surveys carried out in 2002 confirmed the earlier flown airborne surveys. A broad magnetic anomaly occurs on the eastern side of the property, east of the Blackstone River and trends in a linear fashion, with decreasing size and intensity to the west. This linear trend increases again to a smaller magnetic high in the western portion of the claim block. The magnetic anomaly is believed to reflect the presence of a magnetite-bearing intrusive, or intrusives at depth. The gravity survey outlined two separate features. The first defined a property wide gravity high that increases to the north. This likely reflects increasing thickness of limestone overlying the basement siltstones and shales of the Quartet Group. Superimposed on this is a linear gravity high, with a contrast ranging from 2 to 4.5 milligals, that extends from the area of known breccia outcrop at Spectacular creek, east of the Blackstone River, in an arcuate trend to the northwest and west. The strongest part of this anomaly is over 8 km long, 1.5 km wide and lies on the northern flank of the western magnetic lobe. Its intensity is over 6 milligals or 4.5 milligals above the more regional high. It is believed to be caused by a hematite-rich breccia mass just below the Paleozoic unconformity. The 2002 drill program targeted the westernmost gravity anomaly and a breccia occurrence hosted by argillite that had been previously located by prospecting next to the Dempster Highway. The first hole (563 m) drilled on the gravity anomaly did not penetrate the Paleozoic cover, intersecting only overlying carbonate rock which was unmineralized. Due to inaccessibility and drill set up limitations, the second hole (210.5 m) was collared 200 m from the mineralized outcrop and approximately 2 km south of the main gravity anomaly. Bedrock was encountered from 8.23 m and the hole intersected breccia from 8.23 to 32.35 m. Trace amounts of pyrite and chalcopyrite were observed in this breccia. Argillite was encountered from 32.35 m to the end of the hole. Canadian Empire carried out additional ground I.P, magnetics and gravity survey in 2003 in an attempt to better define future drill targets. The surveys helped to refine future targets but the company terminated its option before the targets could be tested. As part of its 2004 geophysical program Janie Resources hired VOX Geoscience Ltd to integrate and interpret all available geophysical data. Upon reviewing the earlier data, VOX Geoscience determined that some of the data was misplotted due to the map projections used (i.e., confusion over Nad 27 and NAD 83). In addition core samples collected from the 2003 drilling program allowed the company to better estimate the specific gravity of each stratigraphic unit. Reinterpretation of the data found that the gravity highs located in the western portion of the claim block were likely coincident with topographic highs. The reinterpretation did verify two gravity highs on the eastern portion of the claim block. The first is centered over the Blackstone River while the second is centered over the Spectacular Creek hematite breccia showing. Five holes drilled on the property in 2005 (503.6 m) only targeted the fringes of the main gravity anomaly. Drill results included 0.07% Cu over 9.8 m in hole YO-05-02 and 0.06% Cu over 6.75 m in hole YO-05-03.

| Work History | | |
|--------------|-------------------|---|
| Date | Work Type | Comment |
| 12/31/2004 | Ground Geophysics | Also gravity and IP surveys. Also carried out reinterpretation and analysis of previous data. |
| 12/31/2003 | Ground Geophysics | Also gravity and magnetometer surveys. |
| 12/31/2002 | Ground Geophysics | Also magnetometer survey . |
| 12/31/2002 | Drilling | Two holes, 773.43 m. |
| 12/31/2000 | Geochemistry | |
| 12/31/2000 | Other | |
| 12/31/1997 | Other | |
| 12/31/1993 | Geochemistry | |
| 12/31/1993 | Geology | |
| 12/31/1993 | Geochemistry | |
| 12/13/2005 | Drilling | Five holes, 503.6 m. |

| Assessment Reports that overlap occurrence | | | | | |
|--|------|--|--|---------------|----------------|
| Report Number | Year | Title | Worktypes | Holes Drilled | Meters Drilled |
| 094409 | 2002 | 2002 Drilling Program on the YUKON OLYMPIC Property | Diamond - Drilling, Drill Core - Geochemistry, Gravity Survey - Ground Geophysics, Magnetics - Ground Geophysics | 2 | 773.43 |
| 094403 | 2002 | Assessment Report on the YUKON OLYMPIC Project HEM 1-88 Claims | Bedrock Mapping - Geology, Magnetics - Ground Geophysics, Line Cutting - Other, Prospecting - Other | | |
| 094249 | 2000 | Geochemistry and Prospecting Report on the HEM 1-6 Claims | Rock - Geochemistry, Prospecting - Other | | |
| 093258 | 1993 | 1993 Geological Report on the DEVIL 1-24 Claims | Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other | | |

| Related References | | | | |
|----------------------------|--------------------------|---------|--------------------------|-----------------|
| Number | Title | Page(s) | Reference Type | Document Type |
| ARMC016792 | Geochemical map - 116G/1 | | Property File Collection | Geochemical Map |

| Drill core at YGS core library | | | | | |
|--------------------------------|---------------|--------------|-----------|--------|------|
| Number | Property | Year Drilled | Core Size | Photos | Data |
| 02-YO-002 | Yukon Olympic | 2002 | HQ-NQ | 0 | 6 |