



## Occurrence Details

**Occurrence Number:** 106D 081

**Occurrence Name:** Lucknow

**Occurrence Type:** Hard-rock

**Status:** Prospect

**Date printed:** 8/5/2025 2:23:35 PM

## General Information

**Secondary Commodities:** copper, gold, lead, silver, zinc

**Deposit Type(s):** Vein Polymetallic Ag-Pb-Zn+/-Au

**Location(s):** 64°4'51" N - 135°13'54" W

**NTS Mapsheet(s):** 106D03

**Location Comments:** .5 Kilometres

**Hand Samples Available:** No

**Last Reviewed:**

## Capsule

### Work History

First staked as a single Lucknow claim (16412) in Jun/16 by A.R. Thomson and explored by hand pitting. Restaked as Dog cl 1-16 (83307) in May/66 by Early Bird Mines Ltd, which explored by trenching.

Purchased in Jun/72 by Silver Spring Mines Ltd and explored in a joint venture with Canadian Reserve Oil & Gas Ltd with geochem and geophysical surveys and trenching in 1972-73, addition of Zap cl 1-32 (Y68440) in Aug/72 and Moshe cl 1-8 (Y89155) in Aug/74, further trenching in 1974-75 and with at least 9 percussion holes (362.4 m) and extensive trenching in 1976, 1978 and 1981. A.H. Rogers added Michelle cl 1-3 (YA41884) to the north in Jul/80 and trenched in 1981. Silver Spring's interests were optioned by Canada Tungsten Mining Corporation Ltd in 1982.

Restaked as JSK cl 1-7 (YA83252) in Sep/86 by Julian Mining Corporation. Matt 1-4 cl (YA83678) and Star cl 1-4 (YA83682) were tied on to the east in Aug/87 by M. Fersovich and the Luke claims were restaked as Star cl 1-8 (YB2710) in Aug/88 by L. Halonen.

### Capsule Geology

The occurrence is located approximately 1 km due east of Rambler Hill and 250 m north of the northern branch of the mining access road that branches off the Wind River Trail north of Cache Creek. L.H. Green of the Geological Survey of Canada mapped the area at 1:250 000 scale in 1961 as part of a helicopter-supported party known as "Operation Ogilvie". The area has not yet been remapped by the Yukon Geological Survey however C. Roots (1997) of the Geological Survey of Canada under contract with the Exploration and Geological Services Division (now part of the Yukon Geological Survey) remapped topographic map sheet 105M located directly to the south in the mid-1990's. In addition Gordey, Abbott and Roots (1990) remapped topographic map sheets 105M/16, 106D/01 and 106D/07East & 08 respectively in the late 1980's. In 2003 Gordey and Makepeace released a geological compilation of the Yukon which covered this area.

Extrapolating C. Roots geological mapping north, the occurrence area is underlain by Middle to Late Devonian Earn Group penetratively deformed rocks consisting of carbonaceous phyllite, siliceous carbonaceous metasilstone, rare calcareous greywacke, metaconglomerate and a felsic metavolcanic member. This sequence is intruded by numerous Triassic aged tabular shaped metamorphosed mafic igneous intrusions. The occurrence, known as the Lucknow, or No. 2 Vein, has been traced on surface for more than 366 m. It strikes north, dips steeply east and cuts schist which is locally intruded by Triassic greenstone sills. Mineralization is best developed where the vein cuts greenstone and consists of heavily oxidized galena, sphalerite and pyrite in siderite gangue. The best publically available data suggests that the vein returned values up to 2.1 g/t gold, 2 235 g/t silver, 79.30% lead 1.14% zinc 0.53% copper (Assessment Report #090000 pg. 15). Previous versions of Yukon Minfile have reported higher grades but those values could not be verified.

Soil sampling over the vein clearly outlined mineralization however silver, lead and zinc values were generally much lower than those recorded over the silver veins located in the Keno Hill district. A test magnetic survey was run over the vein and produced flat results leading the company to abandon the survey.

The occurrence is now located within Class A Settlement Lands controlled by the First Nation of Na-Cho Nyak Dun.

### References

- ABBOTT, J.G. 1990. Geological map of Mt. Westman map area (106D/1); Exploration and Geological Services Division, Yukon, Indian and Northern Affairs, Canada, Open File 1990-1.
- CANADIAN RESERVE OIL AND GAS LTD, AND SILVER SPRING MINES LTD, Jul/75. Assessment Report #090000 by R.G. Hilker.
- CANADIAN RESERVE OIL AND GAS LTD, Jun/76. Assessment #091696 by A.W. Goring and F.W. Plut.
- GEOLOGICAL SURVEY OF CANADA Summary Report, 1921, Part A, p. 4-5.
- GORDEY, S.P. 1990. Geological map of the Tiny Island map area (105M16); Exploration and Geological Services Division, Yukon, Indian and Northern Affairs, Canada, Open File 1990-2.
- 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).
- GREEN, L.H. 1972. Geology of Nash Creek, Larsen Creek and Dawson Map-Areas, Yukon Territory. Geological Survey of Canada, Memoir 364, p. 139.
- MINERAL INDUSTRY REPORT 1973, p. 14-15; 1974, p. 15-16.
- ROOTS, C. 1990. Geology of 106D/8 and 106D/7 (east half) map area; Exploration and Geological Services Division, Yukon, Indian and Northern Affairs, Canada, Open File 1990-3.
- ROOTS, C.F., 1997. Bedrock geology of Mayo area, central Yukon (105M0. Exploration and Geological Services Division, Indian and Northern Affairs Canada, Geoscience Map 1997-1, 1:50 000 scale.
- ROOTS, C.F., 1997. Geology of the Mayo Map Area, Yukon Territory (105M). Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Bulletin 7, 82p.
- YUKON GEOLOGY AND EXPLORATION 1979-80, p. 244

Work History		
Date	Work Type	Comment
12/31/1976	Drilling	Nine holes, 362 m. Assessment Report #091696.
12/31/1974	Trenching	
12/31/1972	Ground Geophysics	Also EM survey .
12/31/1972	Other	
12/31/1972	Trenching	
12/31/1966	Trenching	
12/31/1916	Trenching	

Assessment Reports that overlap occurrence					
Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
<a href="#">096732</a>	2014	Assessment Report Describing Metallurgical Test Pits, Metallurgical Auger Drilling, Geotechnical Auger Drilling, Geotechnical Study, Environmental Baseline Studies, Heritage Evaluation, and Water Quality and Climate Monitoring Surveys	Auger - Drilling, Water - Geochemistry, Metallurgical Tests - Lab Work/Physical Studies, Environmental Assessment/Impact - Studies, Geotechnical - Studies, Heritage/Archeological - Studies	9	96.77
<a href="#">096607</a>	2012	Assessment Report Describing Metallurgical Testing, Wildlife Monitoring, Heritage Evaluation, and Water Quality and Climate Monitoring Surveys	Water - Geochemistry, Metallurgical Tests - Lab Work/Physical Studies, Environmental Assessment/Impact - Studies, Heritage/Archeological - Studies		
<a href="#">093987</a>	1998	Digital Topography, Landsat, and Colour Air Photo Survey over the Clark Claims]	Orthophoto - Airphotography, Rock - Geochemistry, Landsat - Remote Sensing		
<a href="#">090000</a>	1974	Geological and Geochemical Report on Rambler Hill	Soil - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other		