



Occurrence Details

Occurrence Number: 106D 043

Occurrence Name: Settlemeir

Occurrence Type: Hard-rock

Status: Unknown

Date printed: 4/29/2025 7:14:44 AM

General Information

Primary Commodities: lead, silver, zinc

Aliases: Nazgul

Deposit Type(s): Sediment hosted Mississippi Valley-Type Pb-Zn (MVT)

Location(s): 64°29'3" N - -135°11'25" W

NTS Mapsheet(s): 106D06

Location Comments: .5 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Originally staked as Jack claim (16136) in Mar/25 by J. McLean who performed hand trenching in 1926. Restaked as Ram claim(s) (82346) by P. Callison and L. Brown in Aug/62. No work was ever recorded.

Capsule Geology

The occurrence area is located at the southern end of Settlement Ridge, between Settlement and Carpenter Creeks, approximately 37 km due north of McQuesten Lake. The area was regionally mapped by L. Green (1972) of the Geological Survey of Canada in 1961 as part of a helicopter-supported party known as Operation Ogilvie. Although the area has not yet been remapped by the Yukon Geological Survey, C. Roots of the Geological Survey of Canada under contract with the Exploration and Geological Services Division (now part of the Yukon Geological Survey) remapped adjoining topographic map sheets 106D/8 and 106D/7 (East half) in 1990 and topographic map sheet 105M (1997) in the mid-1990's. D. Thorkelson (2000) also under contract with Exploration and Geological Services Division remapped topographic map sheet 106D/16 to the north as part of a larger bulletin. The work of these geologists was incorporated into a geological compilation of the Yukon released by Gordey and Makepeace of the Geological Survey of Canada in 2003.

Based on the work of these geologists it is believed that the occurrence area is underlain by Lower Proterozoic Gillespie Lake Group dolomite which has been intruded by Middle Proterozoic resistant dark weathering diorite and gabbro sills and dykes assigned to the Hart River Sills.

This occurrence is underlain by geology similar to that which underlies the neighboring Carpenter and Silver Hill occurrences (Minfile Occurrences #106D 040 and 042) located 5 km to the west. At these occurrences, Gillespie Lake Group dolomite hosts lead-zinc-silver mineralization which is inferred by Abbott (1991) to be a Mississippi Valley-type replacement deposit of Proterozoic age, similar to the Blende deposit (Minfile Occurrence #106D 064) which lies 30 km to the east. It is probable that the Settlemeir occurrence (this occurrence) was staked as a possible strike extension to the mineralization located to the immediate west.

References

ABBOTT, J.G., Dec/91. Notes from talk presented at Whitehorse Geoscience Forum.

GEOLOGICAL SURVEY OF CANADA, Summary Report 1924, Part A, p. 11-13.

GEOLOGICAL SURVEY OF CANADA, Memoir 364, p. 133.

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.

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 (105M). 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, 82 p.

THORKELSON, D.J., 2000. Geology and mineral occurrences of the Slat Creek, Fairchild Lake, and "Dolores Creek" areas, Wernecke Mountains (106D/16, 106C/13, 106C 14), Yukon Territory. Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Bulletin 10, 73p.

Work History

Date	Work Type	Comment
4/1/2019	Geochemistry	
4/1/2019	Geology	
4/1/2019	Geochemistry	
4/1/2019	Other	
4/1/2018	Geochemistry	

4/1/2018	Geochemistry	
4/1/2018	Other	
12/31/1926	Trenching	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
097242	2018	2018 Assessment Report on the Nazgul Property	Soil - Geochemistry, Cursory Property Visit - Other, Prospecting - Other		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC008073	Geochemical values map - Reef project - Castle Ridge detail area - Figure 9		Property File Collection	Geochemical Map
ARMC008074	Castle Ridge geochem map - Reef project - Figure 21		Property File Collection	Geochemical Map
ARMC008088	Castle Ridge detail area map - 1976		Property File Collection	Geoscience Map (General)
ARMC008089	Castle Ridge detail area map - 1974		Property File Collection	Geoscience Map (General)
ARMC011912	Geology compilation map - Castle Ridge detail area - Reef project - Figure 8		Property File Collection	Geoscience Map (Geological - Bedrock)