



Occurrence Details

Occurrence Number: 105O 024
Occurrence Name: Boundary Zone
Occurrence Type: Hard-rock
Status: Prospect
Date printed: 12/16/2025 7:35:29 AM

General Information

Secondary Commodities: barite, silver, zinc
Aliases: Nidd, Jason
Deposit Type(s): Sediment hosted Sedimentary Exhalative Zn-Pb-Ag (Sedex)
Location(s): 63°12'46" N - -130°32'33" W
NTS Mapsheet(s): 105O01
Location Comments: Location from map on Fireweed Zinc website (2022)
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

Staked as Kobuk & Nidd cl (YA6587) in Sep/76 by Cominco L, which explored with grid soil sampling, mapping, bulldozer trenching, mag, EM and gravity surveys in 1978, 1981, 1982 and 1983. Cominco drilled 2 holes (503 m) in 1979, 4 holes (878 m) in 1981, 4 holes (1242 m) in 1982, 5 holes (1758 m) in 1983 and 3 holes (1186 m) in conjunction with geochem and mapping surveys in 1984 and performed road building in 1985. Cominco repaired the road and performed an IP survey in 1988, and drilled 2 holes (479.2 m) in the main zone in 1989 and six holes (1352.2 m) outside the area of known mineralization in 1990.

Capsule Geology

This large tonnage, low-grade zinc deposit is associated with basaltic volcanism along a late Devonian syndepositional fault which cuts Silurian to Late Devonian sedimentary and pyroclastic volcanic rocks of the upper Road River and lower Earn Groups. The altered, mineralized zone extends over 400 m of stratigraphic thickness, and has a strike length of at least 1500 m in a northeast direction. Hydrothermal minerals including quartz, iron carbonate, pyrite, sphalerite and minor galena have invaded and strongly replaced the host sedimentary rocks, and at depth, banded sphalerite-carbonate veins and carbonate breccias occur within the fault zone. Mineral zoning has been documented: chalcopyrite occurs only in the fault zone, galena is restricted to the deepest part of the deposit, sphalerite and quartz occur in the deep to intermediate parts and pyrite is the dominant sulphide near the top. The Nidd deposit is inferred to be the same age as the Tom and Jason sedex deposits (Minfile 105O 001 and 019) at Macmillan Pass but differs from them in that all of the sulphides were deposited below the sea floor. Drillhole NB89-14 intersected a stockwork of high grade sphalerite-siderite veins cutting pyroclastic rocks at the base of the Earn Group. These rocks contained an average of 2.0% Zn over 63.7 m. 1990 drillholes encountered only a few short intervals of sphalerite-veined mudstone and appear to lie outside the main hydrothermal system.

Work History

Date	Work Type	Comment
8/1/2020	Ground Geophysics	
7/1/2021	Ground Geophysics	
7/1/2021	Geochemistry	
7/1/2020	Drilling	9 holes, 2,317.70 m
7/1/2019	Airphotography	
7/1/2019	Ground Geophysics	
7/1/2019	Drilling	
7/1/2019	Remote Sensing	
7/1/2012	Geochemistry	
7/1/2012	Geochemistry	
7/1/2012	Geochemistry	
7/1/2012	Other	
7/1/1992	Drilling	6 holes, 1,768.20 m
7/1/1991	Drilling	6 holes, 1,352.30 m
7/1/1991	Geochemistry	
7/1/1989	Geochemistry	
7/1/1982	Other	
7/1/1982	Development, Surface	

7/1/1981	Geochemistry	
7/1/1981	Other	
12/31/1990	Drilling	Six holes, 1,352.2 m.
12/31/1989	Drilling	Two holes, 394.7 m.
12/31/1988	Ground Geophysics	
12/31/1988	Development, Surface	
12/31/1985	Development, Surface	
12/31/1984	Drilling	Five holes, 1,758.1 m.
12/31/1984	Geochemistry	
12/31/1984	Ground Geophysics	Also magnetic and gravity surveys.
12/31/1982	Drilling	Number of holes drilled: 4 Amount of work done: 1242 METRES
12/31/1982	Geology	
12/31/1982	Geochemistry	
12/31/1982	Trenching	
12/31/1981	Drilling	Five holes, 878.13 m.
12/31/1981	Trenching	Completed 5 220 cubic meters of trenching.
12/31/1981	Trenching	Amount of work done: 110 METRES
12/31/1979	Drilling	Two holes, 503 m.
12/31/1978	Geology	
12/31/1978	Geochemistry	
12/31/1978	Ground Geophysics	Also magnetics and gravity.
12/31/1977	Geology	
12/31/1977	Geochemistry	
12/31/1977	Trenching	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
096438	2012	Assessment Report on the 2012 Geochemical Sampling and Prospecting on the Nidd Property	Rock - Geochemistry , Silt - Geochemistry , Soil - Geochemistry , Prospecting - Other		
093827	1997	1997 Geological Assessment Report on Emerald Lake Claims	Rock - Geochemistry , Silt - Geochemistry , Soil - Geochemistry		
093015	1992	1991 Assessment Report Nidd Property	Diamond - Drilling	6	1768.20
092924	1991	1990 Assessment Report - Drilling Nidd Property	Diamond - Drilling	6	1352.30
092814	1989	1989 Assessment Report - Drilling Nidd Property	Diamond - Drilling	2	479.20
091365	1982	Assessment Report Geological, Geochemical, and Road Building Report on the Nidd Claims	Winter Road - Development, Surface, Soil - Geochemistry , Detailed Bedrock Mapping - Geology, Line Cutting - Other, Prospecting - Other		
091421	1982	Assessment Report Diamond Drilling, Trenching and Roadbuilding on the Nidd Claims	All Weather Road - Development, Surface, Diamond - Drilling, Backhoe - Trenching, Hand - Trenching	4	1242
090863	1981	Cat Trenching, Hand Trenching and Linecutting on the Nidd Claim Group	Line Cutting - Other, Backhoe - Trenching, Hand - Trenching		
090231	1977	Geological and Geochemical Assessment Report on the Nidd Claim Group	Soil - Geochemistry, Detailed Bedrock Mapping - Geology		
019809	1968	Hess Area Project Proposed Property Follow-Up 1968 Field Season	Research/Summarize - Pre-existing Data		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC016459	Geology map overlay - Hess project - Figure No. 5		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC018179	Field map sheet of 1050/2 with geological notations		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC018180	Field map sheet of 1050/2 with geological notations		Property File Collection	Geoscience Map (Geological - Bedrock)