Occurrence Details

Occurrence Number: 105C 021
Occurrence Name: Iron Creek
Occurrence Type: Hard-rock
Status: Prospect
Date printed: 12/16/2025 6:51:40 AM

General Information

Secondary Commodities: copper, gold, lead, silver, zinc
Aliases: Bigtop
Deposit Type(s): Volcanogenic Sulphide - type not determined
Location(s): 60°51'50" N - -133°18'41" W
NTS Mapsheet(s): 105C14
Location Comments: .5 Kilometres
Hand Samples Available: No
Last Reviewed:

Capsule

Work History

Staked as Jim cl 1-32 (Y20085) in Jul/67 by Mount Grant Mines Ltd, which carried out bulldozer trenching in 1968. Restaked as Iron cl 1-24 (YA59504) in Feb/81 by McCrory Holdings Ltd and as Incatee cl 1-6 (YB21175) in Aug/88 by T. Morgan.
Restaked as Canyon cl 1-16 (YB26804) in Oct/89 by R. Hamel, who carried out prospecting and minor blast trenching the following year. Hamel partially restaked the Canyon claims as Mac cl 1-4 (YB36311) in Aug/91.
Restaked as Bozo cl 1-8 (YB67080) in Jun/96 by 13744 Yukon Inc, which added Bozo cl 9-24 (YB67298) and Bigtop cl 1-30 (YB67268) in Jul/96 and carried out prospecting, geological mapping and soil and rock geochemical sampling. In Apr/97 an investors syndicate was formed to fund exploration of the claims, collectively known as the Bigtop property, and title was transferred to a new private company 15053 Yukon Inc.
In May/97 the new company flew an airborne magnetometer and EM geophysical survey over much of the Sidney Creek valley and between June and Sep/97 staked Bozo cl 25-70 (YB97749), Bigtop cl 31-76 (YB97721), Rusty cl 1-16 (YC08258) and Krusty cl 1-16 (YC08282) and carried out prospecting, geological mapping, excavator trenching and soil and rock geochemical sampling. The company carried out detailed prospecting, geological mapping, lithogeochemical sampling and excavator trenching in 1998 and prospecting, hand trenching, sampling and drilled 3 holes (73.2 m) in 1999.

Capsule Geology

A wide west-northwest trending band of Devonian to Mississippian aged, intermediate to mafic volcanic rocks overlying various felsic lithologies associated with thinly laminated terrigenous clastic rocks and minor recrystalized limestone of the Yukon-Tanana Terrane underlies the Sidney Creek valley. Large bodies of Cretaceous aged granite have intruded the layered rocks to the north and south of the claims and subvolcanic rocks in the form of diorite and quartz-feldspar porphyry sills and dykes are present locally.
A number of vertically discordant zones of silicified, variably sericitized and lesser chloritized rocks with quartz veining containing abundant disseminated sulfide mineralization have been identified on the property. The best developed of these zones show strong depletion of Ca, Na and K, with the Na depletion often laterally extensive. Prospecting and sampling discovered zones of strong disseminated Cu, Pb, Zn and Ag mineralization in the sedimentary unit located above the contact with the felsic metavolcanic unit.
Rock and soil geochemical data from 1996-1998 outlined a number of anomalous zones which are coincidental with electromagnetic conductors and somewhat coincidental with magnetic highs. The most responsive element in soils is Zn with a peak value of 3 361 ppm. The maximum for Pb was 669 ppm and Cu and Ag returned peak values of 351 and 8.9 ppm, respectively. Rock sampling returned peak values of 7 656 ppm Zn, 826 ppm Pb, 649 ppm Cu, 7 100 ppm Ba, 783 ppb Hg, 5 ppm Ag and traces of Au.

References

15053 YUKON INC, Aug/97. Assessment Report #093725 by S. Traynor.

15053 YUKON INC, Apr/98. Assessment Report #093825 by G.S. Davidson and S. Traynor.

15053 YUKON INC, Jan/99. Assessment Report #093918 by S. Traynor.

15053 YUKON INC, Mar/2000. Assessment Report #094097 by S. Traynor.

GORDEY, S.P. AND STEVENS, R.A., 1994. Preliminary interpretation of bedrock geology of the Teslin area (105C), southern Yukon (1:250 000 scale). Geological Survey of Canada, Open File 2886.

HUNT, J.A., 2002. Volacanic-associated massive sulfide (VMS) mineralization in the Yukon-Tanana Terrane and coeval strata of the North American miogeocline, in the Yukon and adjacent areas. Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Bulletin 12, 107 p.

Work History

Date	Work Type	Comment
12/31/1999	Drilling	Three holes, 73.7 m.
12/31/1997	Trenching	
12/31/1997	Airborne Geophysics	Also magnetic survey.
12/31/1996	Geology	

12/31/1996	Geochemistry	Also rock sampling.
12/31/1996	Other	
12/31/1989	Trenching	
12/31/1989	Other	
12/31/1967	Trenching	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
096129	2012	2011 Geochemical Sampling Program, JJC Property	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry		
094775	2006	Conceptual Design Report	Bedrock Mapping - Geology, Data Compilation - Pre-existing Data		
094097	2000	Report on Geology, Prospecting and Drilling of the Bigtop Property	Diamond - Drilling, Bedrock Mapping - Geology, EM - Ground Geophysics, Backhoe - Trenching	3	73.15
093918	1998	Geology and Lithogeochemistry of the Bigtop Property	Rock - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics, Backhoe - Trenching		
093825	1997	Evaluation Report on the Bigtop Property	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Rock - Geochemistry, Soil - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Prospecting - Other, Backhoe - Trenching, Backhoe - Trenching		
093725	1997	Geochemical Survey and Helicopter-borne Geophysical Survey of the Bozo 1-24 and Bigtop 1-30 Claims	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology		