



Occurrence Details

Occurrence Number: 115P 047

Occurrence Name: Zeta

Occurrence Type: Hard-rock

Status: Deposit

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General Information

Primary Commodities: silver

Secondary Commodities: barite, copper, tin, zinc

Deposit Type(s): Vein and Greisens Sn

Location(s): 63°59'23" N - -137°17'31" W

NTS Mapsheet(s): 115P14

Location Comments: 1 Kilometres

Hand Samples Available: Yes

Last Reviewed:

Capsule

Work History

Staked as Zeta cl (YA79015) in Jun/83 by Noranda Exploration Company Ltd, which explored with trenching, mapping, mag, VLF EM and geochem surveys and drilling of 10 holes (883 m) in 1984. Noranda optioned the property in Apr/88 to Danra Resources Ltd, which drilled 4 holes (138 m) later that year. Restaked as Hope cl (1-4) (YB48348) by R. Berdahl in April/94. Berdahl also staked Hope cl (11) (YB48358) 1 km to the west and Hope cl (5-7) (YB48352) 2 km to the southeast. In Apr/97 International Kodiak Resources Inc staked Bald cl 1-16 (YC 04287) 6.5 km to the west. Between Jun and Nov/97 G. Nickolson staked Screamer cl 1-4 (YC03395), 19-24 (YC03537) and 62-70 (YC04398) 4 km to the southwest.

Capsule Geology

The claims were staked on argentiferous galena veins at the contact between shale, sandstone and conglomerate of the Devonian-Mississippian Earn Group and the Syenite Range Stock, a zoned mid-Cretaceous felsic intrusion. The core of the intrusion consists of tourmaline orbicular granite, and is surrounded by concentric zones of quartz monzonite and syenite. Sedimentary rocks are hornfelsed and pyritic up to 100 m away from the intrusive contact. The main zone, which strikes 065° and dips steeply south, cuts across the intrusive hornfels contact. It consists of three parallel tourmaline-muscovite quartz greisen veins, up to 3 m wide, enclosed by 10 to 30 m wide alteration envelopes of kaolinite, hematite, limonite and talc. This zone has been traced 500 m into the pluton and is mineralized with varying amounts of pyrite, arsenopyrite, cassiterite, sphalerite, jamesonite, covellite, chalcocite and stannite. The 1984 drilling tested the main zone for 150 m along strike and 100 m downdip. The best assays were 751.5 g/t Ag over 4.3 m and 528.3 g/t Ag over 3.2 m. Grades appear to improve beneath a 30 to 40 m thick zone of surface leaching. Geological reserves in this zone are estimated at 98,248 tonnes grading 557.8 g/t Ag (Yukon Exploration 1988). Noranda estimated an average tin content of 0.1% with local concentrations up to 0.6%. A second zone nearby lies completely within the hornfels. It strikes 090° and has been traced for at least 400 m. Mineralization in this zone is much more erratic. Other veins have been located about 2 km to the west. Two outcrops of white interlaminated barite and chert were located on the north side of the property. The barite coincides with a strong linear Cu, Zn and Ag soil anomaly that is 500 m long. Berdahl concentrated his efforts towards extending the strike length of the known mineralization. Prospecting outlined several areas of interest which require follow up work. Panning carried out on creeks draining the Syenite Range failed to return significant gold values.

Work History

Date	Work Type	Comment
12/31/1988	Drilling	Four holes, 608.7 m.
12/31/1984	Drilling	Ten holes, 883 m.
12/31/1984	Geology	
12/31/1984	Geochemistry	
12/31/1984	Ground Geophysics	Also VLF-EM survey.
12/31/1984	Trenching	
12/31/1983	Geochemistry	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
095128	2008	Assessment Report Describing Diamond Drilling at the Hopeful Property	Diamond - Drilling	6	865.03
094853	2007	Assessment Report Describing Geochemical Sampling and Prospecting at the Hopeful Property	Magnetic - Airborne Geophysics, VTEM - Airborne Geophysics, Rock - Geochemistry, Soil - Geochemistry, Prospecting - Other		
093471	1994	Prospecting and Geochemical Report, Hope 1-11	Rock - Geochemistry, Prospecting - Other		

092675	1988	Report on Diamond Drilling Program Dawson Silver Prospect	Diamond - Drilling	4	608.70
062287	1986	Report on Dawson Silver Prospect, Dawson Mining District, Yukon Dana Resources Limited	Cursory Property Visit - Other, Research/Summarize - Pre-existing Data		
091782	1985	Geology of the Zeta 1-84 Claims	Historical Drill Core - Geochemistry, Rock - Geochemistry, Detailed Bedrock Mapping - Geology, Geotechnical - Studies		
091590	1984	Zeta 1-40 Claims: Geology, Geochemistry, Geophysics and Diamond Drilling, 1984	Diamond - Drilling, Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Water - Geochemistry, Detailed Bedrock Mapping - Geology, Regional Bedrock Mapping - Geology, EM - Ground Geophysics, Line Cutting - Other, Mechanical - Trenching	10	883.06

Related References

Number	Title	Page(s)	Reference Type	Document Type
1992GeoIvO3_11	Petrology and geochemistry of tin and tungsten mineralized plutons, McQuesten River Region, Central Yukon	167-195	Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report Paper
1992GeoIvO3_09	Geology, mineralogy and geochemistry of tin and tungsten veins, breccias and skarns, Mcquesten River Region (115 P (north) and 105 M/13), Yukon	133-159	Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report Paper
YEG1992_pg61	Geological overview of Clear Creek map area (NTS 115P/14), western Selwyn Basin	61-69	Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report Paper
GM1996-1	Geological map of Clear Creek area, western Selwyn Basin, Yukon		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Geoscience Map (Geological - Bedrock)
1993-1(G)	Geological Map of Clear Creek Map Area, Western Selwyn Basin, Yukon (115P/14)		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Open File (Geological - Bedrock)
6	Geology of the McQuesten River Region, Northern McQuesten and Mayo Map Areas, Yukon Territory (115P/14, 15, 16; 105M/13, 14)		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Bulletin
YEG1988_89	Yukon Exploration 1988	220	Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report

Resource/Reserve

Year	Zone	Type	Commodity	Grade	Tonnage	Amount	Reported Amount	43-101 Compliant	Cut-off
1988	ZETA (OPEN PIT)	Historical Estimate	silver	557.8 g/t	98,248		No	No	Unknown

Estimate based on 14 drill holes and reported in YEG 1988, p. 220. Called drill indicated reserves. Not NI 43-101 compliant.

Drill core at YGS core library

Number	Property	Year Drilled	Core Size	Photos	Data
Z-84-1	Zeta	1984	NQ	0	2
Z-84-10	Zeta	1984	NQ	0	2
Z-84-2	Zeta	1984	NQ	0	2
Z-84-3	Zeta	1984	NQ	0	2
Z-84-4	Zeta	1984	NQ	0	2
Z-84-6	Zeta	1984	NQ	0	2
Z-84-7	Zeta	1984	NQ	0	2
Z-84-8	Zeta	1984	NQ	0	2