

MINFILE DETAILS

Occurrence Number: 106D 018

Occurrence Name: ERIN

Occurrence Type: Hard-rock

Status: Showing

Deposit Type(s): Plutonic Related Au **Location(s):** 64°2'32" N - -135°32'52" W

NTS Mapsheet(s): 106D04

Work History

WORK HISTORY		
Date	Work Type	Comment
12/31/1994	Geochemistry	
12/31/1992	Geology	
12/31/1979	Geology	
12/31/1970	Geology	
12/31/1969	Geology	
12/31/1963	Geology	
12/31/1995	Geochemistry	
12/31/1994	Geochemistry	
12/31/1965	Geochemistry	
12/31/1995	Trenching	
12/31/1993	Other	
12/31/1992	Other	
12/31/1979	Other	
12/31/1970	Other	
12/31/1969	Other	
12/31/1994	Other	
12/31/1993	Other	
12/31/1965	Other	
12/31/1963	Other	
12/31/1993	Other	

Capsule

Work History

Galena float was apparently discovered here about 1949. Staked as Bob cl 1-108 (82441) in Oct/62 by the Titan Project Joint Venture (Noranda Mines Ltd, Canex Aerial Exploration Ltd, Homestake Explorations Ltd, and Kerr Addison Gold Mines Ltd), which prospected and mapped in 1963. Peso Silver Mines Ltd held an interest in the ground in 1965.

Partly restaked by United Keno Hill Mines Ltd in Jun/65 as the G cl 1-10 (84222) and N cl 1-8 (84274) following release of regional geochemical data collected during 1964 by the Geological Survey of Canada's Operation Keno. These claims were prospected and soil sampled later in the year.

Restaked within Erin cl 1-184 (Y32291) in Mar/69 by United Keno Hill Mines Ltd, which conducted mapping and geochemical sampling in 1969 and 1970. Amax of Canada Ltd restaked the showing as the Hit cl 1-96 (YA39657) in Apr/79 and performed mapping and geochem surveys later in the year.

Restaked by Amax as Tag 1-24 (YB14366) in Aug/91. HRC Development Corporation performed a geological and geochemical survey on the Tag claims in 1992, added the Tag 25-40 cl (YB22327) in Jul/93, and prospected and sampled in Aug/93. In Jul/94 HRC carried out further prospecting and rock and soil sampling on the claims. In 1995, HRC trenched and sampled over the soil sample anomalies identified in 1994. In Mar/97 HRC staked Bre cl 1-16 (YB65985) east and south of the Tag claims.

Capsule Geology

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 2003 Gordey and Makepeace released a geological compilation of the Yukon which covered this area.

According to Gordey and Makepeace the area is underlain by a sequence of Devonian to Mississippian Earn Group metasedimentary rocks and Early Carboniferous Keno Hill quartzite which have been intruded by the Cretaceous Gwaihir stock. The rocks have been deformed by metamorphism, folding, thrusting and other forces and numerous Triassic gabbroic sills occur in the area. The occurrence covers the contact between the Gwaihir stock and Earn Group rocks and Keno Hill quartzite.

Two small showings were discovered by prospecting in 1969. The first consists of pyrrhotite and arsenopyrite in quartz-carbonate which assayed 13.7 g/t silver and 0.1% zinc. The second consists of calcite, arsenopyrite, quartz, tourmaline, stibnite, pyrite and pyrrhotite in a crushed zone 0.76 m wide which assayed 0.1% lead.

The Tag Claims, the bulk of which are located to the south of the original showing, were staked over the Cretaceous Gwaihir stock, a equigranular, medium to coarse grained granite to granodiorite stock of the Selwyn Plutonic Suite. The stock intrudes deformed and metamorphosed Earn Group schist and Carboniferous Keno Hill quartzite. In the northern section of the claim block a large body of medium to coarse grained gabbro to amphibolite outcrops. In the southeastern section of the claim block there are two additional smaller bodies of gabbro/amphibolite.

The property was staked by Amax to explore for 'Fort Knox' type intrusion-hosted Au mineralization. The majority of previously collected rock and soil samples came from in and around four old trenches on the property. The 1994 program concentrated on sampling the surrounding ridges and felsenmeer exposures of granite located throughout the property. Soil samples were collected from a grid established in the southern third of the property.

After three years of sampling, rock samples returned up to 273 ppb gold, while soil samples returned up to 485 ppb gold. HRC failed to locate the two small showings found in 1969. None of the anomalies were large enough to be of economic interest.

In 1995, HRC used a helicopter portable Kubota 41 backhoe to excavate 725 m2 of material from 6 trenches located over soil anomalies identified in 1994. Permafrost was encountered in all of the trenches and bedrock was only reached in two. The best results were recorded in trenches 95-1 and 95-2, both of which failed to reach bedrock. Trench 95-1 encountered clay and angular to sub-rounded boulders of biotite granitic while trench 95-2 consisted of similar material except that the biotite granite cobbles exhibited moderate to strong limonite alteration with occasional quartz veins. Eleven soil samples collected along the floor of trench 95-1 averaged 197 ppb gold, 850 ppm arsenic, and 9.8 ppm bismuth which is twice the statistical mean for each element. Twenty-one soil samples collected from the floor of trench 95-2 returned an average of 422 ppb gold, 1320 ppm arsenic and 18.2 ppm bismuth. The lower Au values were attributed to weathering of quartz veins from the biotite granite cobbles. These results are similar to those recorded at the Fort Knox deposit in Alaska, U.S.A.

References

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