



Occurrence Details

Occurrence Number: 106D 026

Occurrence Name: Potato Hills

Occurrence Type: Hard-rock

Status: Showing

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General Information

Secondary Commodities: bismuth, gold, tungsten

Aliases: Pan

Deposit Type(s): Skarn W

Location(s): 64°2'25" N - -135°45'15" W

NTS Mapsheet(s): 106D04

Location Comments: .5 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

*The exact location of this occurrence is uncertain but it likely lies several hundred metres further east near an area Canada Tungsten Mining Corporation Ltd identified in 1978 as the 30 + 800 Skarn Zone.

Placer scheelite was noted in Dublin Gulch (Creek) in 1904 by the Geological Survey of Canada. Staked as Tungsten King, etc cl (12723) in Sep/18 by W. Steinberg and restaked about 1941 by A.J. Kinsey and R. Fisher and optioned to Treadwell Yukon Company Ltd. Claims owned by Mayo Silver Mines Ltd covered this occurrence in 1961-64 but the tungsten potential was not investigated.

The first interest in the bulk tonnage tungsten potential commenced in Jun/68 when Pan cl 1-36 (Y27203) were staked by C. Provencher. The Pan claims covered this occurrence and the Ray Gulch occurrence (Minfile Occurrence #106D 027) located approximately 1.5 km to the south. After 1968 both occurrences were explored simultaneously for tungsten mineralization, however the majority of exploration was directed towards the Ray Gulch occurrence.

The property was optioned in 1968 by Great Plains Development Company of Canada Ltd, which conducted bulldozer trenching and added Pan cl 37-68 (Y31528) in Sep/68. Tam Mines Ltd added Arpa cl 29, 31, 39, 40 (Y31715) and Arpa cl 57-96 (Y31727) to the claim group in Feb/69 and bulldozer trenched later in the year. Connaught Mines Ltd optioned all of the claims from 1969 to 1971 but assigned their rights in 1970 and 1971 to Canex Aerial Exploration Ltd, which carried out an extensive soil geochemical survey in 1970, and bulldozer trenched and drilled three holes (457.2 m) in 1971. The claims reverted early in 1972 to Provencher, who transferred them to a private company, Scheelite Hills Minerals Ltd.

The west side of the occurrence area was restaked as R & D cl 1-16 (YA1393) in Oct/75 by R. Holway & D. Duensing, who trenched in 1976 and transferred the claims to Dublin Gulch Mining Ltd. The remainder was restaked as Mar cl 1-24 (YA14897) in Mar/77 by Queenstake Resources Ltd, which performed mapping and bulldozer trenching later in the year. In 1978, Canada Tungsten Mining Corporation Ltd entered a joint venture with Queenstake, optioned the R & D group, enlarged the property and conducted extensive mapping and sampling in 1978 and 1979. Once again the bulk of the exploration was focused on the Ray Gulch occurrence. Cantung dropped its interest in 1986.

Some of the R & D and Mar cl were transferred to Ivanhoe Goldfields Ltd in Mar/93. In Sep/93, Ivanhoe dug several test pits in decomposed bedrock on the R & D claims and the Olive Crown Grant (a claim staked in 1908 and kept in good standing since). Samples were screened, gravity concentrated and assayed.

In Aug/94 First Dynasty Mines Ltd acquired Ivanhoe Goldfields Ltd. In 1995, First Dynasty which was interested in bulk mining the neighboring Eagle Zone (gold), located 3.5 km to the southeast (Minfile Occurrence #106D 025), carried out diamond drilling east of Potato Hills (part of the area covered by this occurrence) to test for mineralization under the site of the proposed heap leach pad area. In 1995 and 1996 First Dynasty and its wholly owned subsidiary, New Millennium Mining Ltd carried out a major drilling program to outline a core resource/reserve on the adjoining Eagle Zone. Only a minor amount of work was carried out on the tungsten potential of this occurrence and the neighboring Ray Gulch occurrence. First Dynasty changed its name to Sterlite Gold Ltd in Jul/2002. In Oct/2004, StrataGold Corporation entered into an agreement to acquire all of Sterlite's interest in Dublin Gulch, including this occurrence. In addition StrataGold purchased Queenstake Resources surviving rights and interests in various claims. Queenstake retained a 1% royalty on ore processed from the Ray Gulch occurrence and surrounding leases. StrataGold renamed the Ray Gulch occurrence the Mar-Tungsten deposit. This occurrence (the Potato Hills area) resides just north of the boundary of the core claims which define the Mar-Tungsten property but still resides within the larger Dublin Gulch property.

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. In addition various company geologists have mapped the Dublin Gulch area in detail.

Geological work carried out by Roots, Gordey and Makepeace and various company geologists shows that the Dublin Gulch area is underlain by deformed Upper Proterozoic to Lower Cambrian clastic rocks of the Hyland Group that have been intruded by the Dublin Gulch Stock, a Late Cretaceous medium-grained granodiorite stock assigned to the Tombstone Suite. The stock is cut by minor late dykes. Rare narrow intrusive breccia dykes have also been reported. Alteration, gold and tungsten mineralization is directly associated with these intrusions.

On The Dublin Gulch property scheelite occurs with feldspar, muscovite, pyrite and small amounts of arsenopyrite in a quartz stockwork and as disseminations near the veins, which cut granite of the Dublin Gulch Stock. Alteration is weak and consists of narrow argillic envelopes around the veins. Scheelite is also found in skarn zones hosted in clastic sediments located adjacent to the intrusion. Canada Tungsten reports that the color of the skarn units vary from light green to dark green with the color dependent on the composition of the pyroxenes and the amount of calcium in the skarn. The light green skarns represent the diopside end of the pyroxene solid solution series while the dark green skarns represent the hedenbergite end of the series. The light green skarns have not undergone intense skarnification while the dark green hedenbergite skarns have undergone almost complete skarnification.

The exact location of exploration work carried out prior to 1970 is uncertain. Canada Tungsten's Assessment Report #0904471 mentions an area named the 39 + 800 Skarn Zone which "encompasses old trenches that were cut in the 1960's". The skarn beds are dark green and well laminated. Scheelite is finely disseminated throughout the skarn beds but is noticeably scarce at this location. Channel samples collected by the company returned between 0.01% and 0.29% tungsten oxide (WO₃).

On the Dublin Gulch property the highest grade occurrences are found within quartz veins within the stock and grade up to 10.1% tungsten oxide. Veining within the metasedimentary rocks can range up to 10 cm wide, assay up to 1.3% tungsten oxide with wallrock grading as high as 3.4% tungsten oxide. A pegmatite vein consisting of quartz and white mica assayed 6.4% tungsten oxide across 25 cm.

First Dynasty's 1995 diamond drill holes were drilled southwest of Potato Hills in an area earmarked for a proposed heap leach pad. A total of 376 selective samples were analyzed from the 9 drill holes and 93% assayed below detection limit. One sample returned 40.02 g/t Au. This sample was attributed to a single 40 cm quartz-arsenopyrite vein.

StrataGold is currently concentrating their exploration efforts towards finding additional bulk tonnage gold deposits similar to the Eagle Zone located 3.5 km to the southwest and increasing the reserves of the Mar-Tungsten Deposit located 1.5 km to the south. The area covered by this occurrence will likely be used as a site for a heap leach pad or other infrastructure required for bulk tonnage mining.

References

- CANEX AERIAL EXPLORATION LTD, Oct/71. Assessment Report *#060948 by B. Ainsworth.
- CATHRO, R.J., Apr/69. Tungsten in Yukon. Western Miner, p. 32-34.
- CONNAUGHT MINES LTD, Mar/70. Assessment Report *#060841 by R.J. Cathro.
- FIRST DYNASTY MINES LTD, Mar/96. Assessment Report #093409 by M. Sieb.
- GEOLOGICAL SURVEY OF CANADA Summary Report 1904, Part A, p. 18-42; Summary Report 1918, Part B, p. 10-15.
- GEOLOGICAL SURVEY OF CANADA Memoir 234, p. 31-32.
- 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).
- IVANHOE GOLDFIELDS LTD, Sept/93. Assessment Report #093140 by C.N. Orsich.
- LITTLE, H.W., 1959. Tungsten Deposits of Canada. Geological Survey of Canada Economic Geology Series No. 17, p. 21-29, 34-36.
- MINERAL INDUSTRY REPORT 1971-72, p. 24-25; 1978, p. 14-15.
- 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.
- SEDAR. System for Electronic Document Analysis and Retrieval system - Company Profiles.
- SMIT, H., ET AL. Summary Information on the Dublin Gulch Project, Yukon Territory. In: Yukon Exploration and Geology, 1995, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p.33-36.
- STRATAGOLD CORPORATION, News Release, 18 Oct/2004; 15 Jan/2008.
- WHITEHORSE STAR, 14 Jun/95; 21 Sep/95.
- YUKON EXPLORATION 1985-86, p. 293-294.
- YUKON GEOLOGY AND EXPLORATION 1979-80, p. 238 to 240.
- YUKON EXPLORATION & GEOLOGY 1995, p.8, 33; 1996, p. 13-14, 30, 32; 1997, p. 12, 35.

Work History

Date	Work Type	Comment
12/31/1996	Studies	
12/31/1995	Studies	
12/31/1993	Trenching	
12/31/1979	Ground Geophysics	
12/31/1979	Trenching	
12/31/1978	Geology	
12/31/1978	Geochemistry	
12/31/1978	Geochemistry	
12/31/1977	Geology	
12/31/1977	Trenching	
12/31/1976	Trenching	
12/31/1971	Drilling	Three holes, 457.2 m.
12/31/1971	Trenching	
12/31/1970	Geochemistry	
12/31/1968	Trenching	
12/13/1993	Ground Geophysics	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
097130	2017	Assessment Report on the VBW Claims: Geological, Geochemical and Remote Sensing Exploration Program - 2017	Magnetic - Airborne Geophysics, Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, LIDAR - Remote Sensing		
096246	2012	2011 Dublin Gulch Exploration, Drilling, Regional Surface Sampling, Engineering and Environmental Programs	Diamond - Drilling, Diamond - Drilling, Reverse Circulation - Drilling, Reverse Circulation - Drilling, Drill Core - Geochemistry, Drill Core - Geochemistry, Drill Cuttings - Geochemistry, Drill Cuttings - Geochemistry, Rock - Geochemistry, Rock - Geochemistry, Regional Bedrock Mapping - Geology, Regional Bedrock Mapping - Geology, Bulk Sample - Lab Work/Physical Studies, Bulk Sample - Lab Work/Physical Studies, Environmental Assessment/Impact - Studies, Environmental Assessment/Impact - Studies, Geotechnical - Studies, Geotechnical - Studies, Backhoe - Trenching, Backhoe - Trenching	268	35882.36
096209	2010	2010 Dublin Gulch Exploration Geology Program	All Weather Road - Development, Surface, Auger - Drilling, Diamond - Drilling, Drill Core - Geochemistry, Rock - Geochemistry, Tailings - Geochemistry, Water - Geochemistry, Bulk Sample - Lab Work/Physical Studies, Prospecting - Other, Environmental Assessment/Impact - Studies, Geotechnical - Studies	84	11072.39
095673	2009	2009 Dublin Gulch Exploration Program	Auger - Drilling, Diamond - Drilling, Drill Core - Geochemistry, Hand - Trenching	28	5121.50
095654	2008	Dublin Gulch, Assessment Report 2008	Diamond - Drilling, Drill Core - Geochemistry, Rock - Geochemistry, Soil - Geochemistry, Environmental Assessment/Impact - Studies, Backhoe - Trenching	48	8301.23
095592	2006	2006 Dublin Gulch Exploration Program	Diamond - Drilling, Drill Core - Geochemistry, Rock - Geochemistry, Soil - Geochemistry, Hand - Trenching	10	4281.51
094788	2004	2004 [Dublin Gulch] Geophysical Survey	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics		
093409	1995	Core and Reverse Circulation Drilling on the Dublin Gulch Claim Groups	Diamond - Drilling, Drill Core - Geochemistry	79	13865
091387	1982	Dublin Gulch 1982 Assessment Dill Logs & Trench Geology	Diamond - Drilling, Drill Core - Geochemistry, Rock - Geochemistry, Mechanical - Trenching	3	738.24
090915	1981	1981 Exploration Program, Dublin Gulch	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other, Mechanical - Trenching		
090564	1979	Geological, Geochemical, and Geophysical Report	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics, Seismic - Ground Geophysics, Research/Summarize - Pre-existing Data		
090482	1978	1978 Project Report on the Secret Creek Property	Orthophoto - Airphotography, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Detailed Bedrock Mapping - Geology, Line Cutting - Other, Prospecting - Other, Surveying - Other, Mechanical - Trenching		
090471	1978	1978 Project Report on the Dublin Gulch Property	Orthophoto - Airphotography, Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Magnetics - Ground Geophysics, Prospecting - Other		
060948	1970	Geochemical Report Pan & Apra Claims	Soil - Geochemistry		
060841	1970	Summary Report on Potato Hills Tungsten	Research/Summarize - Pre-existing Data		
060185	1969	Tungsten Prospect Dublin Gulch and Haggart Creek Property Evaluation	Rock - Geochemistry, Detailed Surficial Mapping - Geology, Prospecting - Other, Research/Summarize - Pre-existing Data, Preliminary Economic Assessment - Studies		
062258	1965	[Summary of the Peso Silver Mines Ltd. Properties]	Data Compilation - Pre-existing Data, Research/Summarize - Pre-existing Data, Resource Estimate - Studies		
092069	1964	Prospectus on the Mayo Silver Mines Ltd.	Property Evaluation - Other, Preliminary Economic Assessment - Studies		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC007457	Wedge EM survey results map - E. Barker property - Haggart Creek		Property File Collection	Geophysical Map
ARMC007458	Property Information Form - E.H. Barker lode claims, Haggart Creek		Property File Collection	Report
ARMC007459	Topographic map with field notes - Dublin Gulch		Property File Collection	Geoscience Map (General)
ARMC007460	Sketch map - Geology - Haggart Creek - 100 CL-group		Property File Collection	Geoscience Map (General)
ARMC007461	Sketch map - JEM survey - Haggart Creek		Property File Collection	Geoscience Map (General)
ARMC007463	Mayo claim sheet - 106-D-4 - Haggart Creek and Dublin Gulch		Property File Collection	Geoscience Map (General)
ARMC00	Correspondence Re: Barker lode claims - Galena Hill		Property File	Miscellaneous Company

7466	Correspondence re. Baker Lake claims - Silver Hill		Collection	Documents
ARMC01 2960	Potato tungsten showing - Dublin Gulch, Mayo district, Yukon Territory		Property File Collection	Report
ARMC01 2959	Tungsten prospect - Dublin Gluch and Haggart Creek, Yukon Territory - Mr. Conrad Provencher - Property evaluation		Property File Collection	Report
ARMC01 2750	Maps of the Tungsten project showing the geology of Dublin Gulch and the pace 8 compass survey of bulldozer trenching for the Potato Hills tungsten project in the Dublin Gulch area		Property File Collection	Geoscience Map (General)
ARMC01 2963	Hand-written notes on thin section descriptions of Potato Hill rock samples		Property File Collection	Miscellaneous Company Documents
ARMC01 4969	Summary report - Potato Hills tungsten - Mayo area, Yukon Territory for Connaught Mines Ltd.		Property File Collection	Report
ARMC01 4781	Final report 1964 - Mayo Silver Mines Ltd. (N.P.L.) - Mayo, Yukon		Property File Collection	Report
ARMC01 2964	Correspondence Re: Potato Hill area - File 11-2-95		Property File Collection	Miscellaneous Company Documents
ARMC01 2962	Assay results - Potato Hills prospect, Yukon		Property File Collection	
ARMC01 2961	Bulldozer trenching and sampling program with assays and trench diagrams - Potato tungsten showing - Dublin Gulch, Mayo district, Y.T.		Property File Collection	Report