



Occurrence Details

Occurrence Number: 106D 024

Occurrence Name: Sheppard

Occurrence Type: Hard-rock

Status: Prospect

Date printed: 12/15/2025 10:12:04 PM

General Information

Secondary Commodities: tin

Aliases: Tin Dome

Deposit Type(s): Manto & Stockwork Sn

Location(s): 64°2'27" N - -135°50'3" W

NTS Mapsheet(s): 106D04

Location Comments: .5 Kilometres

Hand Samples Available: Yes

Last Reviewed:

Capsule

Work History

Tin was first recognized in the placer concentrates from Dublin Gulch in 1940. The source was staked as First, etc cl (55276) in Aug/43 by E.R. Sheppard and H. Ray for Mining Corporation of Canada Ltd, a Noranda subsidiary, which carried out hand trenching and sampling. The Consolidated Mining and Smelting Company of Canada Ltd (Cominco) is reported to have carried out additional trenching and to have driven a cross-cut below the vein in 1945.

Restaked as Arpa cl 1-40 (Y31687) in Feb/67 by C. Provencher and J.H. Boyce; as Stew cl 1-2 (Y33327) in Apr/70; as Rhonda cl 1-4 (Y68349) in Jul/72 by R. Holway; and as Dog cl 1-22 (Y97149) in Nov/74 by H. Fromme.

Restaked as DG cl 1-56 (YA14944) in Apr/77 by G. Dickson. The DG claims were optioned to Canada Tungsten Mining Corporation Ltd in the spring of 1978, which carried out prospecting, reconnaissance and detailed geological mapping, geochemical rock, soil and stream sediment sampling, trenching and magnetometer surveying from 1978-81. The claims were transferred back to Dickson in Jan/86.

Can-Pro Development Ltd optioned the DG claims as part of a larger block in the Dublin Gulch area in 1989. Ivanhoe Goldfields Ltd optioned Can-Pro's claims in 1991 and subsequently optioned them to Amax Gold (B.C.) Ltd, which in 1992 drilled 2 rotary holes (216.4 m); one each on the Smoky cl 52 and DG cl 9.

In Aug/94 First Dynasty Mines Ltd acquired Ivanhoe Goldfields Ltd. In 1995, First Dynasty and in 1996 its wholly owned subsidiary, New Millennium Mining Ltd carried out a major drilling program to outline a resource/reserve on the Eagle Zone (Minfile Occurrence #106D 025). The companies also carried out diamond drilling on Potato Hill (Minfile Occurrence #106D 026) to test for mineralization under the proposed heap leach pad area. In Sept/95 Ivanhoe staked fractional Roni cl 1-13 (YB64630) in and around the Smoky claims.

Restaked as Tin Dome cl 1-12 (YC02842) in Aug/2001 by B. Walden and K. Benson who carried out prospecting and rock geochemical sampling in 2001 and 2002.

Capsule Geology

The area is underlain by deformed Late Proterozoic Yusezyu Formation clastic rocks of the Hyland Group that have been intruded by Late Cretaceous Tombstone Plutonic Suite stocks, dykes and sills. Alteration and gold and tungsten mineralization is directly associated with the intrusions.

Resinous, yellow-to-brown, finely crystalline cassiterite occurs in a vein or breccia zone about 0.9 m wide, which cuts quartzite of the Hyland Group. Coarse fragments of float are composed of smaller, angular fragments of vein quartz, quartzite and quartz-mica schist, packed in with chlorite, tourmaline, vein quartz, limonite and minor pyrite. The mineralization shows evidence of extreme brecciation and fine green tourmaline is particularly abundant.

Lenses of tourmaline up to 7 cm long and 1.3 cm wide consist of aggregates of finely crystalline hairs. Cassiterite is seldom visible to the naked eye and occurs as small patches or nests or as disseminated crystals. Three channel samples by the Geological Survey of Canada assayed 1.53%, 1.53% and 0.83% tin. Cominco's sampling averaged less than 0.3% tin (all assay information from Geological Survey of Canada Bulletin 111, p. 85).

Work carried out in 2002 on the Tin Dome claims was focused to the north in the vicinity of Minfile Occurrence #106D 023 and consisted of prospecting and geochemical sampling which failed to locate the source of massive arsenopyrite float boulders discovered the previous year.

References

CANADA TUNGSTEN MINING CORPATION LTD, May/79. Assessment Report #090471 by W.B. Lennan.

CANADA TUNGSTEN MINING CORPORATION LTD, Mar/81. Assessment Report #090790 by G.D. Nordin.

CANADA TUNGSTEN MINING CORPORATION LTD, Dec/81. Assessment Report #090915 by G.M. Rodgers.

CAN-PRO DEVELOPMENT LTD, Feb/90. Assessment Report #092841 by D. Philpot.

FIRST DYNASTY MINES LTD, 1995. Annual Report.

FIRST DYNASTY MINES LTD, Mar/96. Assessment Report #093409 by M. Sieb.

GEOLOGICAL SURVEY OF CANADA, Bulletin 111, p. 84-85.

GEOLOGICAL SURVEY OF CANADA, Economic Geology Report NO. 28, p. 73-74.

GEORGE CROSS NEWSLETTER, 30 Dec/92.

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).

MINERAL INDUSTRY REPORT 1969 and 1970, p. 18-19; 1978, p. 14-15.

PROVENCHER, C., Dec/69. Assessment Report #060185 by R.G. Hilker.

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.

THOMPSON, R.W., 1945. An occurrence of cassiterite at Dublin Gulch, Y.T. Economic Geology, 1945, p. 142-147.

WALDEN, B. and BENSEN, K., Mar/2003. Assessment Report #094404 by R.A. Doherty.

WHITEHORSE STAR, 14 Jun/95; 21 Sep/95.

YUKON EXPLORATION 1985-86, p. 293-295.

YUKON EXPLORATION AND GEOLOGY 1995, p.8, 33. 1996, 13-14, 30, 32. 1997, p. 12, 35.

YUKON GEOLOGY AND EXPLORATION 1979-80, p. 238-240.

Work History

Date	Work Type	Comment
12/31/2002	Other	
12/31/2002	Other	
12/31/2001	Other	
12/31/2001	Other	
12/31/1996	Studies	
12/31/1995	Studies	
12/31/1992	Drilling	Number of holes drilled: 2 Amount of work done: 216.4 METRES
12/31/1980	Geology	
12/31/1980	Geochemistry	
12/31/1980	Other	
12/31/1979	Geology	
12/31/1979	Geochemistry	
12/31/1979	Trenching	
12/31/1979	Other	
12/31/1978	Geology	
12/31/1978	Geochemistry	
12/31/1978	Other	
12/31/1945	Trenching	
12/31/1943	Trenching	
12/31/1943	Other	

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		
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
095592	2006	2006 Dublin Gulch Exploration Program	Diamond - Drilling, Drill Core - Geochemistry, Rock - Geochemistry, Soil - Geochemistry, Hand - Trenching	10	4281.51
094577	2004	2004 [Dublin Gulch] Geochemical Soil Sampling	Soil - Geochemistry		
094788	2004	2004 [Dublin Gulch] Geophysical Survey	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics		

091387	1982	Dublin Gulch 1982 Assessment Drill 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		
090614	1979	1979 - Project Report - Dublin Gulch Property Claim Groups A-L & Ungrouped Claims Geology, Geochemistry, Geophysics, Diamond Drilling	Diamond - Drilling, Drill Core - Geochemistry, Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Magnetics - Ground Geophysics, Prospecting - Other, Backhoe - Trenching	28	3114.20
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		
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)
ARMC007466	Correspondence Re: Barker lode claims - Galena Hill		Property File Collection	Miscellaneous Company Documents
ARMC014781	Final report 1964 - Mayo Silver Mines Ltd. (N.P.L.) - Mayo, Yukon		Property File Collection	Report