



Occurrence Details

Occurrence Number: 105I 006

Occurrence Name: Clea

Occurrence Type: Hard-rock

Status: Prospect

Date printed: 4/29/2025 5:45:10 PM

General Information

Secondary Commodities: copper, tungsten

Aliases: Hi-Min, Omo

Deposit Type(s): Skarn W

Location(s): 62°46'37" N - -129°52'10" W

NTS Mapsheet(s): 105I13

Location Comments: .5 Kilometres

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

First staked in Aug/60 as Pete cl (75156) by Canol Met ML. Restaked as Pete cl (Y13001) in June/66 by A. McLeod, and by Hudson Bay Mg as Hi cl (Y22001) in Aug/67, Min cl (Y28114) in Sept/68, Omo cl (Y41528) in Sept/69 and Lan cl (Y42389) in June/70. Hudson Bay explored with mapping and geochem sampling and one 10.7 m packsack hole in 1968, 2 holes (612.7 m) in 1969, hand trenching and 6 holes (334.7 m) in 1970, and 6 holes (477.8 m) in 1971 and sold its claims in 1976 to Placer Dev L & Essex Mls C, which added Clea cl (YA978) in Sep/76. Yukon Revenue ML added on the He cl (YA11289) to the east in Sept/76. Placer and Essex explored with mapping and geochemical surveys in 1977, 21 holes (3230.9 m) in 1978, 8 holes (1280 m) in 1979, 33 holes (905.6 m) in 1980 and 5 holes (1616.1 m) in 1981. Restaked by Placer Dome Canada as 182 Clea claims (YA00978) in Feb/94.

Capsule Geology

Two skarn showings occur about 1.6 km apart in Silurian or Devonian limestone and argillite near a stock which is 370 m in diameter. The showing drilled by Hudson Bay in 1968-72 (Min & Omo groups), consists of almost massive pyrrhotite with minor amounts of chalcopyrite, scheelite and sphalerite in siliceous skarn within the large contact aureole around the stock. Host rocks are argillite and limestone of probable Silurian or Devonian age. The best core assays obtained by Hudson Bay were 1.4% WO₃ and 0.2% Cu across 1.6 m in Hole 2 and 2.3% WO₃ and 1.0% Cu across 2.2 m in Hole 3. The Clea showing consists of scheelite, pyrrhotite and chalcopyrite in strongly deformed quartz-biotite-diopside-garnet skarn that occurs both in a hornfelsed roof pendant and in a complex contact setting above the flat-lying roof of the stock. Isoclinal folds with axial planes which strike northwest and dip southwest have repeated the 45.7 m thick calc-silicate unit at least eight times. All Placer and Essex drilling has been on the Clea. The only reported assays (1981) indicate intersections of 0.46% WO₃ over 0.7 m and 0.19% WO₃ over 2.6 m. Both the Clea and Omo showings contain abundant vesuvianite, calcite and fluorite, an unusual assemblage for this type of occurrence. Both showings also have outer skarn alteration zones with narrow selvages containing cassiterite, molybdenite, and tin-bearing andradite and epidote.

References

CANEX PLACER LTD, 1977. Assessment Report *#090240 by J.M. Kowalchuk.

CANEX PLACER LTD, 1979. Assessment Report *#091196 by J.M. Kowalchuk.

CATHRO, R.J., Apr/69. Tungsten in Yukon. Western Miner, p. 29.

DICK, L.A., 1980. A comparative study of the geology, mineralogy and conditions of contact metasomatic mineral deposits in the northeastern Canadian Cordillera. Unpublished Ph.D. thesis, Queen's University, p. 29, 42-45, 75-79, 101-106, 353-358.

GEOLOGICAL SURVEY OF CANADA Paper 78-1A, p. 288-289.

HUDSON BAY EXPLORATION AND DEVELOPMENT COMPANY LTD, 1970. Assessment Report *#091194 by I. Young.

HUDSON BAY MINING AND SMELTING CO. LTD, Dec/68. Assessment Report #018915 by R.T. McIntosh & R.L. Larson.

MINERAL INDUSTRY REPORT 1977, p. 92-93; 1978, p. 70-71.

PLACER DEVELOPMENT LTD, Aug/78. Assessment Report *#091195 by T. Schneider and J.M. Kowalchuk.

PLACER DEVELOPMENT LTD, 1978. Assessment Report *#091191 by C. Rennie.

PLACER DEVELOPMENT LTD, 1980. Assessment Report *#090705 by M.B. Gareau and J.M. Kowalchuk.

PLACER DEVELOPMENT LTD, Oct/81. Assessment Report *#090880 by M.B. Gareau.

THOMPSON, K.M., Apr/78. Geology of the Clea Tungsten Deposit. Unpublished B.Sc. thesis, University of British Columbia.

YUKON GEOLOGY AND EXPLORATION 1979-80, p. 190.

YUKON EXPLORATION AND GEOLOGY 1981, p. 147.

Work History		
Date	Work Type	Comment
12/31/1981	Drilling	Number of holes drilled: 5 Amount of work done: 1616 METRES
12/31/1980	Drilling	Number of holes drilled: 33 Amount of work done: 905.6 METRES
12/31/1979	Drilling	Number of holes drilled: 8 Amount of work done: 1280.2 METRES
12/31/1978	Drilling	Number of holes drilled: 21 Amount of work done: 3291.8 METRES
12/31/1977	Geology	
12/31/1977	Other	
12/31/1971	Drilling	Number of holes drilled: 6 Amount of work done: 447.8 METRES
12/31/1970	Drilling	Number of holes drilled: 6 Amount of work done: 334.7 METRES
12/31/1970	Trenching	
12/31/1969	Drilling	Number of holes drilled: 2 Amount of work done: 612.6 METRES
12/31/1968	Drilling	Number of holes drilled: 1 Amount of work done: 10.67 METRES
12/31/1968	Geology	
12/31/1968	Other	

Assessment Reports that overlap occurrence					
Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
091191	1978	[Diamond Drilling on Clea Claims]	Diamond - Drilling	4	898.70
091195	1978	[Diamond Drilling on Clea, R and Don Claims]	Diamond - Drilling		
090240	1977	1977 Progress Report	Rock - Geochemistry, Detailed Bedrock Mapping - Geology, Regional Bedrock Mapping - Geology, Hand - Trenching		
018915	1968	Geological Mapping Yukon Territory Mount Wilson Region	Rock - Geochemistry, Bedrock Mapping - Geology		

Related References				
Number	Title	Page(s)	Reference Type	Document Type
ARMC016515	Geochem samples overlay maps - 105I/13		Property File Collection	Geochemical Map

Drill core at YGS core library					
Number	Property	Year Drilled	Core Size	Photos	Data
DDH-1	Clea	1970	AQ	2	1
DDH-2	Clea	1970	AQ	4	1
DDH-3	Clea	1970	AQ	2	1