

Occurrence Details

Occurrence Number: 115P 045 Occurrence Name: Omega Occurrence Type: Hard-rock

Status: Deposit

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General Information

Primary Commodities: barite Secondary Commodities: silver, zinc

Deposit Type(s): Sediment hosted Stratiform Barite

Location(s): 63°59'9" N - -137°10'48" W

NTS Mapsheet(s): 115P14 Location Comments: 1 Kilometres Hand Samples Available: No Last Reviewed:

Capsule

Work History

Staked as Omega cl (YA65102) in Jul/82 by Mattagami Lake Mines Ltd and transferred to Noranda Exploration Company Ltd, which carried out geological mapping, geochemical sampling and VLF EM surveying in 1983. In 1985, Technifluids Ltd added more claims and carried out gravity surveying and geochemical sampling, bulldozer trenching, drilled 7 holes (333 m) and studied the feasibility of barite production in a joint venture.

Restaked as Hope (9-10) (YB48357) in April/94 by R Berdahl, who carried out a prospecting program later in the year.

Capsule Geology

Two bedded barite occurrences have been located in a sequence of quartzite, slate, sandstone, shale and conglomerate of the Devonoian-Mississippian Earn Group. Small Cretaceous syenite plutons outcrop 1.5 km to the southwest and 2 to 4 km to the northeast.

The main occurrence was tested with 6 drill holes and consists of a finely laminated barite bed containing minor argillite interbeds. It is overlain by black graphitic argillite and underlain by a thin bedded mixture of barite, limestone and witherite. The bed ranges in true thickness from 4.9 to 38 m and is faulted off along strike and at depth. Drilling in 1985 outlined reserves of 30,000 tonnes with an average grade of 88.38% barite, however the presence of argillite interbeds can lower the average grade. Thus the ore may require some upgrading before it can be shipped.

The second occurrence lies 3 km downstream and was tested by one drill hole. The barite bed is marked by a 200 m long barite-silver-zinc soil anomaly and is 10.4 m wide where penetrated by the drill hole. Unfortunately, the upper 6.7 m of the barite layer is contaminated with carbonate.

 $Berdahl \, sampled \, numerous \, sulphurous \, smelling \, barite/shale/chert \, showings \, near \, the \, main \, showing. \, None \, of \, the \, samples \, returned \, anomalous \, values \, for \, gold \, or \, sulphides.$

Work History

Date	Work Type	Comment
12/31/1994	Other	
12/31/1985	Ground Geophysics	
12/31/1985	Drilling	Seven holes, 333 m.
12/31/1985	Geochemistry	
12/31/1985	Trenching	
12/31/1985	Other	
12/31/1983	Geology	
12/31/1983	Geochemistry	
12/31/1983	Ground Geophysics	Also VLF survey.
12/13/1982	Geochemistry	
12/13/1982	Geology	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
<u>093967</u> 19	1998		Silt - Geochemistry, Soil - Geochemistry, IP - Ground Geophysics, Magnetics - Ground Geophysics		
<u>091630</u> 19	91630 1985 Omega 1-32 Claims: Trenching, 1984-85		Mechanical - Trenching		

<u>091795</u>	1985	Assessment Report, 1985 (Geophysical, Geochemical and Diamond Drilling) Omega 1-56 Claims	Diamond - Drilling, Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Gravity Survey - Ground Geophysics, Hydraulic - Trenching	6	333
091507	1983	Omega 1-32 Claims: Exploration Report No. 1: Geology, Geochemistry, and Geophysics, 1983	Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, EM - Ground Geophysics, Line Cutting - Other		

Related References							
Number	umber Title		Reference Type	Document Type			
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)			
<u>1993-1(</u> <u>G)</u>	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)			
YEG1985 _86	Yukon Exploration 1985-86	380-381	Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report			
<u>6</u>	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			

Resource/Reserve

Year	Zone	Туре	Commodity	Grade	Tonnage	A mount	Reported A mount	43-101 Compliant	Cut-off
1985	OMEGA (OPEN PIT)	Historical Estimate	barite	88.38 %	30,000		No	No	Unknown

Calculation assumed 50 m strike length, average width of 6 m, depths of 25 m and 4.0 tonne/cubic metre. Grade based on the average of a single continuous chip sample taken across 7 m. Reported in YEG1985-86.