



Occurrence Details

Occurrence Number: 105C 017

Occurrence Name: Marlin

Occurrence Type: Hard-rock

Status: Deposit

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General Information

Primary Commodities: rhodonite

Secondary Commodities: manganese

Aliases: Eve, Evelyn Creek

Deposit Type(s): Sediment hosted Sedimentary Mn

Location(s): 60°42'26" N - -133°20'7" W

NTS Mapsheet(s): 105C11

Location Comments: .5 Kilometres

Hand Samples Available: Yes

Last Reviewed:

Capsule

Work History

Staked as Dawn claims (70743) in Jul/55 by M. Kroyden and L. Allen, some of which were refused for not being recorded within the allotted travel time. Restaked as Marlin cl 1-8 (92903) in Sep/65 by Mount Grant Mines Ltd, which added Lucky cl 1-8 (92940) in Oct/65; carried out geological mapping in 1967; staked Sun cl 1-16 (Y24587) in May/68; and built a 22 km access road, carried out bulldozer trenching, detailed geological mapping and drilled 24 percussion and 10 short holes (884 m) later in 1968. Contex Silver Mines Ltd staked the Law cl 9-34 (Y29650) in Nov/68 to surround the Mount Grant property and restaked the occurrence as Law cl 35-80 (Y35208) in Jun/69. Restaked as Eve cl 1-68 and 73-76 (YA75610) in May/83 by D. Stedman, who carried out geological mapping, geochemical sampling and staked Eve cl 77 (YA78233) in Aug/83. The claims were subsequently transferred to Anooraq Resources Corporation Ltd, which carried out rock geochemical sampling and staked Eve cl 79-84 (YA82594) in Jul/84; blast trenching and staked Adam cl 1-6 (YA96407) in Oct/86. Anooraq upgraded the access road in 1987-88; began mining rhodonite and shipped 27.3 tonnes in 1987; 20 tonnes in 1988; and 54.4 tonnes in 1989. In 1991 the company repaired the road, carried out geochemical sampling, trenching, detailed geological mapping and mined approximately 36.3 tonnes of rhodonite. A similar program of exploration was carried out in 1992 when \$62 000 of expenses were filed for assessment. In Oct/94 the company mapped the main rhodonite showing at a scale of 1:100 and carried out extensive bulldozer trenching. Approximately 57 cu. m of footwall quartzite and rhodonite were excavated and one percussion hole (6.7 m) was drilled to test the extent of gem quality rhodonite at the northwestern end of the deposit. In Sep/98 Anooraq sold the property to 12633 Yukon Inc, which produced 35 tonnes of rhodonite that year. The numbered company subsequently optioned the property to S. McKeown, who carried out road and reclamation work, drilled 5 holes (150.8 m) in the deposit and completed limited hand held percussion drilling near the southern boundary of the claim group in 2000.

Capsule Geology

Manganese-rich skarn lenses are hosted by quartzite, black siltstone and chlorite schist of the Devonian, Mississippian and(?) older aged Nasina assemblage of the Yukon Tanana Terrane. The manganese is believed to have formed as a stratiform synsedimentary deposit, which was later metamorphosed. Antal reported that the mineralization consists of 2/3 rhodonite and 1/3 rhodochrosite and that a chip sample assayed 36.3% Mn across 7.6 m. Hole 68-14 assayed 24% Mn across 15.2 m, but most intersections averaged less than 5% Mn. Some of the rhodonite from the skarn is of gem quality and is being marketed as a decorative building stone. The skarn zone is 25 m long and 4 to 7 m wide. It has been traced for 100 m to the northwest and 250 m to the southeast. The northwest and southeast extensions are very narrow. Shearer stated that the deposit is highly variable in shape and mineralogy, but can be roughly divided into two mineralogical zones: (1) a northern tephroite-bustaminte-rhodochrosite-quartz-minor rhodonite zone and (2) a southern rhodonite-tephroite-minor rhodochrosite zone. Manganiferous veins up to 15 cm wide are found as boulder trains at the northwest corner of the property (Minfile Occurrence #105C 018). The veins are discontinuous and include pyrite-chalcopyrite-bornite or galena. A specimen from a 1984 trench returned 291.4 g/t Ag, 25.4% Pb and 0.206 g/t Au. As of 1994 current reserves stood at approximately 362.9 tonnes of gem quality rhodonite with some potential of additional reserves down-dip. Work in 2000 was undertaken to outline potentially higher grade zones of rhodonite within the remaining reserves of the deposit. The drill holes intersected semi-massive to massive rhodonite which varied in color from light pink to a mottled dark black and rose-red. No details of the percussion drilling, other than the general location on Eve cl 43, were filed for assessment.

References

ANOORAQ RESOURCES CORPORATION LTD, Oct/84. Assessment Report #091573 by G. Macdonald.

ANOORAQ RESOURCES CORPORATION LTD, Oct/87. Assessment Report #062280 by G. Macdonald.

ANOORAQ RESOURCES CORPORATION, Oct/91. Assessment Report #092977 by J.T. Shearer.

ANOORAQ RESOURCES CORPORATION, Oct/94. Assessment Report #093247 by J.T. Shearer.

FINANCIAL EXAMINER, 11 Sep/68.

GEORGE CROSS NEWSLETTER, 7 Jul/88, 20 Jan/89, 26 Jun/89, 13 Jul/89.

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).

McKEOWN, S., May/2001. Assessment Report #094263 by R.A. Doherty.

MOUNT GRANT MINES LTD, Nov/67. Assessment Report #019863 by J.W. Antal.

MOUNT GRANT MINES LTD, Sep/68. Assessment Report #019864 by J.W. Antal.

MOUNT GRANT MINES LTD, Oct/68. Assessment Report #091106 by J.W. Antal.

YUKON EXPLORATION 1987, p. 88-89; 1991, p. 5.

YUKON EXPLORATION AND GEOLOGY 1984. p. 63: 1998. p. 7.

Work History

Date	Work Type	Comment
12/31/2000	Drilling	Number of holes drilled: 5 Amount of work done: 150.8 METRES
12/31/2000	Drilling	
12/31/2000	Development, Surface	
12/31/1998	Other	
12/31/1994	Geology	
12/31/1994	Drilling	Number of holes drilled: 10 Amount of work done: 6.7 METRES
12/31/1994	Other	Approximately 57m3 of footwall excavated.
12/31/1992	Trenching	
12/31/1991	Geology	1:5 000 scale.
12/31/1991	Development, Surface	
12/31/1991	Other	
12/31/1991	Other	
12/31/1989	Other	
12/31/1987	Development, Surface	
12/31/1987	Other	
12/31/1986	Trenching	
12/31/1984	Trenching	
12/31/1983	Geology	
12/31/1983	Other	
12/31/1968	Drilling	Number of holes drilled: 34 Amount of work done: 884 METRES
12/31/1968	Development, Surface	
12/31/1968	Trenching	
12/31/1967	Geology	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
096865	2015	2015-Assessment Report on the Evelyn Creek Rhodonite Property	Rock - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other		
096720	2011	2012 - Assessment Report on the Evelyn Creek Rhodonite Property	Rock - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Prospecting - Other		
094873	2007	2007 Geological Report for the Eve Property	Rock - Geochemistry, Soil - Geochemistry, Prospecting - Other		
094784	2006	Geochemical and Geophysical Report	Soil - Geochemistry, Magnetics - Ground Geophysics		
094263	2000	Assessment Report; Diamond Drilling and Road Work Completed on the Eve 35-38, Eve 57-58, Eve 3 and Adam 3 Claims	All Weather Road - Development, Surface, Diamond - Drilling, Diamond - Drilling, Percussion - Drilling	10	301.76
093247	1994	Trenching Report on the Evelyn Creek Rhodonite Property	Bedrock Mapping - Geology, Backhoe - Trenching		
092977	1991	Geological, Trenching and Mining Report on the Evelyn Creek Rhodonite Property	Bedrock Mapping - Geology, Backhoe - Trenching		
062280	1987	Geological Report on Evelyn Creek Property	Research/Summarize - Pre-existing Data		
091573	1984	Geological Report; Evelyn Creek Property	Rock - Geochemistry, Bedrock Mapping - Geology		
019864	1968	Geological Report for Mount Grant Mines Ltd. in the Mount Grant and Marsh Lake Areas	All Weather Road - Development, Surface, Diamond - Drilling, Drill Core - Geochemistry, Rock - Geochemistry, Detailed Bedrock Mapping - Geology, Mechanical - Trenching	25	884
091106	1968	Geological Report for Mount Grant Mines	Diamond - Drilling, Bedrock Mapping - Geology, Backhoe - Trenching	36	884.22
019863	1967	Mount Giant Mines Ltd., Geological Report	Bedrock Mapping - Geology		

Resource/Reserve

Year	Zone	Type	Commodity	Grade	Tonnage	Amount	Reported Amount	43-101 Compliant	Cut-off
1994	MARLIN - MAIN RHODONITE SHOWING (OPEN PIT)	Historical Estimate	rhodonite	100 %	363		No	No	Unknown

Resource figure based on work program undertaken in 1994. Deposit's small size and surface location nullifies need to diamond drill it. Figure is approximate based on surface measurement and rock samples. Rhodonite is gem quality.; Assessment Report #093247. Deposit covers 2 occurrences. Figures only cover gem quality rhodonite. Earlier production covered all grades.