Occurrence Details

Occurrence Number: 105O 045
Occurrence Name: Stroshein
Occurrence Type: Hard-rock
Status: Showing
Date printed: 12/16/2025 7:48:40 AM

General Information

Secondary Commodities: arsenic, barite, gold, silver, thallium
Aliases: Golden Ridge, Golden Hinge
Deposit Type(s): Carbonate-Hosted Disseminated Au-Ag (Carlin-type), Sediment hosted Stratiform Barite
Location(s): 63°17'26" N - -130°53'1" W
NTS Mapsheet(s): 105O07
Location Comments: Occurrence location marks largest barite bed of 15 found by Hudson Bay Exploration.
Hand Samples Available: No
Last Reviewed: Mar 10, 2014

Capsule

Work History

Staked within Mac cl 1-124 (YA40619) in Aug/79 by Hudson Bay Exploration and Development Company Ltd following a reconnaissance prospecting, rock and silt sampling program. The following year the company carried out geological mapping, rock sampling and grid based sampling programs over known barite occurrences.

In July/81 Hudson Bay added Mac cl 125-146 (YA63378) onto the northwest end of their existing Mac claim block. The company carried out geological mapping, rock sampling and grid based soil sampling programs later in the month. In Aug/82 Hudson Bay carried out a reconnaissance ground magnetic geophysical survey over Mac claims 101-104 (northwest end of claim block) to determine whether magnetics might detect a local volcanic feeder system emanating from a larger hydrothermal system.

Restaked within Oro cl 49-318 (YD104903 - part of a larger block of Oro claims), in Oct 2010 by Cathro Resources Corporation which also staked Sol cl 1-206 (YD105453) to the southeast at the same time. In Nov 2010 Colorado Resources Ltd optioned a 100% interest in the Oro and Sol claim blocks from Cathro Resources in return for cash shares and certain work commitments. Colorado Resources combined the claim groups and other claims to create the Oro property.

In Apr/2011 Colorado Resources staked On cl 1-400 (YE42601) and cl 401-407 (YE43261) to the southeast. During the 2011 exploration season, Colorado Resources carried out a helicopter-borne magnetic and electromagnetic geophysical survey and a large regional silt and soil sampling survey over the entire Oro property. The company also signed a Traditional Knowledge Protocol with the Ross River Dena Council whose traditional territory encompasses the project area.

In 2012 Colorado Resources carried out geological mapping, additional rock sampling, prospecting and infill soil sampling over the area surrounding this occurrence.

In May/2013 Colorado Resources optioned the Oro property to Gold Fields Selwyn Exploration Corporation a wholly owned subsidiary of Gold Fields Ltd. Under the agreement Gold Fields could acquire up to a 71% interest in the property subject to certain payments, work commitments and share issuances.

During the 2013 exploration program Gold Fields undertook a proprietary analysis of more than 20 000 soil and rock samples previously collected by Colorado Resources to identify areas to be highly prospective for "Carlin style mineralization". Gold Fields used the results of this study to guide a diamond drill program consisting of 13 holes (1 614 m) that tested 7 different areas of the property. Three diamond drill holes (Oro13-09, 11 and 12 - length not reported) tested various targets surrounding this occurrence. A fourth hole (Oro13-10) tested a gold soil anomaly (referred to as the Blue Steel anomaly), located approximately 3.25 km to the northeast.

In Nov/2013 Gold Fields terminated its option on the Oro claims.

Capsule Geology

The occurrence area is located approximately 37 km west of the Macmillan Pass Airstrip near the central-east boundary of the Yukon. Access to the occurrence area is via helicopter from the airstrip or the camp/staging area located along the North Canol Highway approximately 10 km to the south of the airstrip.

The area was regionally mapped throughout the 1980's by G. Abbott who was employed by Exploration and Geological Services Division of the Department of Indian and Northern Affairs, Yukon. In April 2003 Abbott and the division was devolved to the Yukon Government and is now part of the Yukon Geological Survey. In 2013 Abbott released an updated version of the geology of the Macmillan Pass area based on his 30 year career in the Yukon. Beginning in 2011 Colorado Resources began remapping their Oro property in detail. In the first year the company mapped in detail the area surrounding the J.O. – Saddle – Canol zones (Minfile Occurrence #105O 032 – located 3 km to the west) where mineralization had been previously discovered by AGIP. In the second year the company expanded eastward and regionally mapped the central portion of their large property. Although Colorado Resources' mapping differs somewhat from Abbott's in terms of the composition of individual geological units and their stratigraphic location, Colorado's mapping generally mirrors Abbott's work. The barite occurs at two stratigraphic levels. The lower level consists of grey massive bedded barite in thin-bedded chert, cherty argillite and siliceous shale rocks assigned to the Lower to Middle Devonian Niddery Lake Member (Lower Earn Group). The upper horizon consists of siliceous shale and minor cherts assigned to the Upper Devonian, Fuller Lake Member of the Portrait Lake Formation (Upper Earn Group). The barite occurs in beds usually less than 1 metre thick near the top of the unit.

The majority of the barite occurrences were found in the upper horizon. The actual occurrence location marks an area of unusually thick barite beds lying within Fuller Lake Member siliceous shales. Abbott mapped several thin interbeds of Middle to Upper Devonian Macmillan Pass Member Conglomerate Facies within the siliceous shales surrounding the occurrence location.

Colorado Resources optioned the Oro property to explore for "Carlin Type" gold mineralization. Reconnaissance scale soil sampling completed in 2011 by the company outlined a 10 km long trend of elevated silver geochemical values (ranging from detection up to 35.1 ppm silver) north and east of this occurrence location. Within this anomaly which the company called the Golden Ridge – Golden Hinge anomaly, lies a 6 km long area of elevated gold values ranging from detection up to 814 ppb. Anomalous gold and silver values on these widely spaced soil lines vary from single stations to up to 700 m widths along the lines. This zone sub-parallels a thrust faulted contact between black carbonaceous Portrait Lake Formation shales and the Macmillan Pass Member conglomerates.

Additional follow-up soil sampling carried out in 2012 further defined the Golden Ridge – Golden Hinge anomaly. Geological mapping and rock geochemistry determined the anomaly is associated with a regional thrust fault and a >10 km long ankeritic alteration zone within the Macmillan Pass Member chert pebble conglomerate unit. Soil sampling also determined that a

localized >98th percentile gold (>42.7 ppb) and arsenic (>257.2 ppm) anomaly accompany the silver values over an area measuring 250 m wide by 1 500 m long. Bounding the silver anomaly to the north is a sub-parallel 600 m wide by 5 000 m long (>5 ppm) thallium (indicator mineral for "Carlin Type" mineralization) soil anomaly.

Prior to the commencement of the 2013 diamond drill program Gold Fields Selwyn Exploration Corporation undertook a proprietary analysis of more than 20 000 soil and rock samples collected by Colorado Resources to identify areas of highly prospective for "Carlin Type" mineralization resulting in the identification of 17 areas over a 5 km by 24 km area.

No actual assays have been publicly reported by either Colorado Resources or Gold Fields. A press release dated November 22, 2013 and released by Colorado Resources states, "Gold Fields noted that although high grade results were not recognized there were sufficient widespread anomalous gold areas to warrant further work. While the results of the 2013 program were promising, Gold Fields' current mandate is to focus more on near-term development opportunities; it has subsequently provided notice that it will not proceed under terms of its Option Agreement with the company".

Work History

Date	Work Type	Comment
12/31/1982	Geochemistry	Collected on small grid.
12/31/1982	Ground Geophysics	
12/31/1982	Trenching	Two trenches dug on barite showings.
12/31/1982	Geology	
12/31/1981	Trenching	
12/31/1980	Geochemistry	Sampled barite occurrences.
12/31/1980	Geochemistry	Grid based over several barite occurrences.
12/31/1980	Geology	
12/31/1979	Geochemistry	Reconnaissance scale.
12/31/1979	Geology	
12/31/1979	Other	Reconnaissance scale.
12/13/2013	Drilling	Three holes tested this target, length not reported. A fourth hole tested Blue Steel gold soil anomaly located 3.25 km to the northeast.
12/13/2013	Lab Work/Physical Studies	Gold Fields undertook a proprietary analysis of all rock and soil samples collected by Colorado Resources.
12/13/2012	Geochemistry	Collected out around this occurrence.
12/13/2012	Geochemistry	Infill sampling along grid lines.
12/13/2012	Geology	Carried out around this occurrence.
12/13/2011	Geochemistry	Regional scale survey, samples collected along claim lines.
12/13/2011	Geochemistry	Regional program.
12/13/2011	Airborne Geophysics	Magnetics also collected. Surveys flown over entire Oro property,

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
096656	2013	2013 Geological, Geochemical and Diamond Drilling Report on the Oro Property	Diamond - Drilling, Drill Core - Geochemistry, Rock - Geochemistry, Prospecting - Other	13	2614.36
096293	2012	2012 Geological, Geochemical and Trenching Report on the Oro Property	Rock - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Prospecting - Other, Backhoe - Trenching		
095744	2011	Geological, Geochemical, Geophysical and Trenching Report on the Oro Property	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Interpretation - Airphotography, Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Prospecting - Other, Backhoe - Trenching		
093827	1997	1997 Geological Assessment Report on Emerald Lake Claims	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry		
091075	1982	Assessment Report of Magnetic Survey Mac 101-104 Claims	Magnetics - Ground Geophysics, Bulk Sample - Lab Work/Physical Studies, Resource Estimate - Studies, Mechanical - Trenching		
090666	1980	Assessment Report on Geochemical and Geological Surveys Mac Claims	Rock - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Hand - Trenching		
019809	1968	Hess Area Project Proposed Property Follow-Up 1968 Field Season	Research/Summarize - Pre-existing Data		
019033	1968	Atlas Explorations Limited Project Report 1968 Hess River Area	Silt - Geochemistry, Soil - Geochemistry, Regional Bedrock Mapping - Geology		
018947	1967	Hess River Project Report	Rock - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology		
019032	1967	Hess River Project Report	Data Compilation - Pre-existing Data		

Related References

Number	Title	Page(s)	Reference Type	Document Type
YEG1981-pg15	Mineral exploration in Yukon and western district of Mackenzie: Deposit discovery rate and exploration potential	15-21.	Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report Paper
YEG1982	Yukon Exploration and Geology 1982	165.	Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report
YEG1981	Yukon Exploration and Geology 1981	175-176.	Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Annual Report
YEG2011_OV	Yukon Exploration and Geology Overview 2011	26-27, 66.	Yukon Geological Survey	Annual Report
YEG2012_OV	Yukon Exploration and Geology Overview 2012	36-37, 62.	Yukon Geological Survey	Annual Report
YEG2013_OV	Yukon Exploration and Geology Overview 2013	27-28, 43, 47.	Yukon Geological Survey	Annual Report
1983-1	Structure and Stratigraphy of the MacMillan Fold Belt: Evidence for Devonian Faulting		Indian & Northern Affairs Canada/Department of Indian & Northern Development: Exploration & Geological Services Division	Open File (Geological - Bedrock)
GM2013-1	Bedrock geology of the Macmillan Pass area, Yukon and adjacent Northwest Territories		Yukon Geological Survey	Geoscience Map (Geological - Bedrock)
ARMC016467	Geology map - Hess project - Figure No. 21 - 105O/7		Property File Collection	Geoscience Map (Geological - Bedrock)
ARMC015545	Geochemical results and claim group map of sheet 105-O-7 with geological notations		Property File Collection	Geochemical Map
ARMC015546	Geochemical results and claim group map of sheet 105-O-7 with sample locations marked		Property File Collection	Geochemical Map
BROCK000083	Geochemical results and claim group map of sheet 105-O-7 - Fig. 12		Property File Collection	Geochemical Map
BROCK000092	Geochemical results and claim group map of sheet 105-O-7 - Fig. 21		Property File Collection	Geochemical Map