



## Occurrence Details

**Occurrence Number:** 115J 031

**Occurrence Name:** Cleveland

**Occurrence Type:** Hard-rock

**Status:** Anomaly

**Date printed:** 4/28/2025 8:13:10 PM

## General Information

**Secondary Commodities:** copper, molybdenum

**Aliases:** Cub

**Deposit Type(s):** Porphyry Cu-Mo-Au

**Location(s):** 62°39'42" N - -138°53'17" W

**NTS Mapsheet(s):** 115J10

**Location Comments:** .5 Kilometres

**Hand Samples Available:** No

**Last Reviewed:**

### Capsule

#### Work History

Staked as Cub cl 2-16 (Y44539) and 18-36 (Y44554) in Dec/69 by the Grant Syndicate and sold in Jan/70 to Cleveland Mining and Smelting Company Ltd, following which Cleveland entered into a joint venture with Guardian Mines Ltd. The joint venture conducted geological mapping and grid soil sampling later in the year and added Cub cl 37-48 (Y53533) in Jul/70. Restaked as H cl 1-90 (YB37332) in Sep/92 by Pacific Sentinel Gold Corporation to protect numerous company owned placer claims and to provide an area for infrastructure planned for the neighboring Casino deposit (Minfile Occurrence #115J 028) located approximately 9 km to the northeast. Between 1993 and 94 the company carried out various geotechnical and environmental studies over the occurrence area. In Nov/97 Pacific Sentinel merged with Consolidated North Coast Industries to form Great Basin Gold Ltd. No further assessment work was carried out in the vicinity of this occurrence by Great Basin and the claims were allowed to lapse in Mar/2002.

#### Capsule Geology

The occurrence is located approximately 9 km southwest of the Casino deposit (Minfile Occurrence #115J 028), one of the largest, highest grade porphyry deposits in Canada. The region is located within the Dawson Range, a west-central portion of the Yukon-Tanana terrane. The Yukon-Tanana terrane is comprised dominantly of metamorphic rocks inferred to be Devonian to Mississippian in age that has been intruded by numerous Mesozoic granitic bodies and plutons hosting copper, molybdenum and gold mineralization. The occurrence area is underlain by hornblende-biotite diorite belonging to the mid-Cretaceous Dawson Range batholith. Geological mapping by Cleveland Mining and Smelting noted several weakly gossanized areas associated with granitic dyke swarms and a small roof pendant of Paleozoic metasedimentary rocks. A 900 m long zone near the centre of the claims returned anomalous copper and molybdenum values. Pacific Sentinel's geotechnical and environmental studies identified the occurrence area as a possible borrow area for residual sands and broken rock. The material would be used as construction material etc., if the neighboring Casino deposit obtains production status.

#### References

CLEVELAND MINING AND SMELTING COMPANY LTD, Nov/70. Assessment report #060216 by G.S. Zimmer and G.G. Carlson.

GORDEY, S.P., AND MAKEPEACE, A.J., 1999. Yukon digital geology, S.P. Gordey and A.J. Makepeace (comp.); Geological Survey of Canada, Open File D3826, and Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open File 1999-1 (D)

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).

JOHNSTON, S.T., 1995. Geological compilation with interpretation from geophysical surveys of the northern Dawson Range, central Yukon (115J/9 & 10; 115J/12). Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open File 1995-2(G), 1:100 000 scale.

JOHNSTON, S.T., AND SHIVES, R.B.K., 1995. Interpretation of an airborne multiparameter geophysical survey of the northern Dawson Range, central Yukon: A progress report. In Yukon Exploration and Geology, 1994. Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p. 105-111.

MINERAL INDUSTRY REPORT 1969-70, p. 60-61.

PACIFIC SENTINEL GOLD CORPORATION, Feb/94. Assessment Report #093190 by W.D. Eaton et al.

SELBY, D. and NESBITT, B.E., 1998. Biotite chemistry of the Casino Porphyry Cu-Mo-Au Occurrence, Dawson Range, Yukon. In: Yukon Exploration and Geology 1997. Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p. 83-88.

SELBY, D. ET AL., 1999. Major and trace element compositions and Sr-Nd-Pb systematics of crystalline rocks from the Dawson Range, Yukon Canada. In: Canadian Journal of Earth Sciences, Volume 36, p. 1463-1481.

### Work History

Date	Work Type	Comment
12/31/1994	Studies	

12/31/1994	Studies	
12/31/1993	Studies	
12/31/1993	Studies	
12/31/1970	Geology	
12/31/1970	Geochemistry	

### Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
<a href="#">096177</a>	2012	Airborne Magnetic-Radiometric Survey Report on Grout, Quo Claim Groups at Doyle Creek area	Gamma-Ray Spectrometry - Airborne Geophysics, Magnetic - Airborne Geophysics		
<a href="#">096084</a>	2012	Assessment Work Report-Airborne Magnetic-Radiometric Survey Report on Quo Claims Property	Gamma-Ray Spectrometry - Airborne Geophysics, Magnetic - Airborne Geophysics		
<a href="#">095429</a>	2010	2010 Assesment Work Report-An Airborn Magnetic-Radimetric Survey Report on Grout Claims	Gamma-Ray Spectrometry - Airborne Geophysics, Magnetic - Airborne Geophysics		
<a href="#">093190</a>	1993	1993 Summary Report-Casino Property	All Weather Road - Development, Surface, Diamond - Drilling, Drill Core - Geochemistry, Rock - Geochemistry, Soil - Geochemistry, Detailed Bedrock Mapping - Geology, Heavy Mineral Concentrate - Lab Work/Physical Studies, Biophysical Mapping - Studies, Environmental Assessment/Impact - Studies, Geotechnical - Studies, Rock Mechanics - Studies, Mechanical - Trenching	127	50316
<a href="#">019767</a>	1970	Geophysical Report on Airborne Magnetic and Airborne Radiometric Surveys	Gamma-Ray Spectrometry - Airborne Geophysics, Magnetic - Airborne Geophysics		
<a href="#">060216</a>	1970	Geological and Geochemical Report on the Cub 2-16 and Cub 18-36 Mineral Claims	Soil - Geochemistry, Bedrock Mapping - Geology, Line Cutting - Other, Prospecting - Other		
<a href="#">017450</a>	1966	Report on Geochemical Survey-Dip Creek Watershed	Silt - Geochemistry, Soil - Geochemistry		
<a href="#">019098</a>	1965	Geophysical Report-Cat Claims-Casino Creek Area	Magnetic - Airborne Geophysics		

### Related References

Number	Title	Page(s)	Reference Type	Document Type
<a href="#">ARMC016557</a>	Geology map - 115J/10 - Colorado Creek		Property File Collection	Geoscience Map (Geological - Bedrock)
<a href="#">ARMC016558</a>	Geochemical values total extraction map - 115J/10 - Colorado Creek		Property File Collection	Geochemical Map