



## Occurrence Details

**Occurrence Number:** 105F 071

**Occurrence Name:** Chzerpnough

**Occurrence Type:** Hard-rock

**Status:** Prospect

**Date printed:** 4/29/2025 1:00:23 AM

## General Information

**Secondary Commodities:** barite, copper, fluorite, lead, silver, zinc

**Aliases:** Fire

**Deposit Type(s):** Volcanogenic Massive Sulphide (VMS) Kuroko Cu-Pb-Zn

**Location(s):** 61°36'43" N - -132°26'11" W

**NTS Mapsheet(s):** 105F09

**Location Comments:** .5 Kilometres

**Hand Samples Available:** No

**Last Reviewed:**

### Capsule

#### Work History

Staked as Chzerpnough cl 1-16 (YA481) in Aug/76 by a joint venture between Cyprus Anvil Mining Corporation and Hudson's Bay Oil & Gas Ltd, which carried out prospecting and soil sampling in 1976 and geological mapping, magnetic and EM surveying in 1977. Restaked as part of Eve cl 1-150 (YA99622) by Mountain Province Mining Inc in Dec/86 covering an area to the southeast of the occurrence.

Restaked as Fire cl 1-12 (YB74411) in Feb/96 by Eagle Plains Resources Ltd, which carried out geological mapping, trenching and contour soil sampling later in the year. The company surrounded the Fire claims on three sides with Char cl 1-30 (YB84517) in Jun/96.

In Oct/97 Atna Resources Ltd optioned the Fire and Char claims from Eagle Plains and in Nov/97, carried out an airborne EM, magnetic and VLF survey over the Fire and Char claims and Atna's wholly owned Tree claims (Minfile Occurrence 105F 095) located 3 km to the north. In 1998 Atna continued geological mapping, grid soil sampling, lithogeochemical sampling and ground EM surveying on the claims before dropping the option and returning the claims to Eagle Plains.

Eagle Plains continued prospecting, geological mapping and geochemistry work on the Char and Fire claims in 1999 and in 2000. In 2000, the company drilled 5 diamond drill holes (509 m) on the Fire claims. In Sep/2000 the company added Char cl 31-40 (YB92936) to the west to cover the open ground located between this occurrence and the Bnob occurrence (Minfile Occurrence #105F 073), located 7.5 km to the southwest. The company staked Cole cl 1-30 (YB93030) to the east at the same time.

In 2001 the company carried out extensive geological mapping, silt and soil sampling programs over the enlarged claim block. The results of this program led the company in Nov/2001 to stake Rocky cl 1-38 (YB93530) to the northeast. The company continued their exploration work in 2002 and began archiving all previously collected data using a Geographic Information System.

#### Capsule Geology

The area is located southwest of the Tintina Fault on the Cassiar Platform. The Cassiar Platform is a curvilinear shelf that formed, between mid-Cambrian and Silurian time, roughly parallel to the western margin of the North American craton but separated from it by the Selwyn Basin. Shallow water deposition on the Cassiar Platform continued until Late Devonian time. Block faulting and local uplift during Late Devonian and Mississippian resulted in deposition of carbonaceous shale and chert pebble conglomerate in the Selwyn Basin and across the platform. Local explosive volcanism produced thick tuff and flows whose extremities intertongue with surrounding black shale. Some of these centres contain base metal mineralization. Calcareous argillite of Upper Paleozoic to Triassic age was deposited above the shale and volcanic sequence (Hunt, 1999).

The occurrence is located at the northwest end of the Pelly Mountains volcanic belt, an arcuate belt approximately 80 km long and up to 25 km wide that forms part of the Cassiar Platform. The belt is comprised of localized volcanic centers separated by basins in-filled with sediments and volcanoclastic rocks. The present deformed thickness of the volcanic section is highly variable, ranging from less than 100 m to as much as 1 700 m. Associated with these volcanic rocks are at least two volcanogenic massive sulphide (VMS) deposits, the Wolf (Minfile Occurrence 105G 008) and MM (Minfile Occurrence 105F 012) and numerous other historical showings including the Bnob (Minfile Occurrence 105F 073) and Chzerpnough, this occurrence. The volcanic rocks are predominantly felsic but in some areas significant accumulations of andesite to basalt occur. The most common feature of the belt are flows, epi-zonal sills, and small plugs of trachyte. The trachyte flows and/or sills are laterally very extensive, probably due to low magmatic viscosity caused in part by high alkali element content. Typically the trachyte contains significant amounts of pyrite which gives rise to extensive gossans. The trachytes are commonly cream colored, with fine to medium grained phenocrysts of feldspar and rare quartz and locally massive, amygdaloidal or brecciated. Syenite intrusions have been noted at a number of locations within the Pelly Mountains volcanic belt and are thought to represent volcanic feeders. Although these intrusions were originally thought to represent plugs recent diamond drilling suggests that they are really sills.

Exploration work carried out by Cyprus Anvil led to the discovery of the original Chzerpnough occurrence. Cyprus described the occurrence as consisting of galena, sphalerite and fluorite with bedded barite in pyritic, felsic breccias within a Mississippian aged suite of acid volcanics and associated sediments, mainly limestone and argillite. The breccias vary from tuffs to coarse agglomerates with all known showings hosted in lapilli tuff that is associated with a yellow weathering trachyte.

Soil sampling identified large, complex geochemical anomalies in which lead, zinc and barium are generally spatially associated with this unit. Anomalous fluorite was detected in areas containing strong quartz-sericite alteration. Atna's work defined coincidental geological, geochemical and geophysical targets within the Fire claims.

Eagle Plains drilling program intersected a mineralized barite horizon in 4 of the 5 drill holes, ranging in apparent thickness from 5.3m to 15.1m. Drill hole, DDH F00-02 returned the best intersection of the program, returning 65.5 g/t silver, 4 930 ppm lead and 2.15% zinc over an approximate thickness of 3.3 m. Following the drill program Eagle Plains staked an additional 250 claims to cover the open ground located between this occurrence and their neighboring Ice claims (Minfile Occurrence #105F 073).

The 2001 exploration program was the first of a two year program geared towards geochemically sampling newly staked areas, much of which had never been sampled by Eagle Plains. The 2002 program followed up on areas of interest identified the previous year. The final results identified 4 principal areas of interest, of which one area, the Cloutier Creek area, is located northeast of this occurrence. Soil sampling along 5 lines of samples defined a broad moderate to locally strong copper geochemical anomaly that was detected on all lines. The highest copper values were from line F15 0+25N (123.2 ppm) and FL1 which averaged 123.8 ppm over three stations (150 m).

#### References

ATNA RESOURCES LTD, Aug/99. Assessment Report #094001 by P. Daubeney, R.G. Wilson and P. Holbeck.

CYPRUS ANVIL MINING CORPORATION, Feb/77. Assessment Report #090173 by P. Dean.

CYPRUS ANVIL MINING CORPORATION, Aug/77. Assessment Report #061628 by P. Dean.

EAGLE PLAINS RESOURCES LTD, Mar/97. Assessment Report #093607 by J.R. Dickie.

EAGLE PLAINS RESOURCES LTD, Feb/2001. Assessment Report #094200 by C.C. Downie.

EAGLE PLAINS RESOURCES LTD, Dec/2001. Assessment Report #094267 by C.C. Downie.

EAGLE PLAINS RESOURCES LTD, Nov/2002. Assessment Report #094392 by C.C. Downie and C. Gallagher.

EAGLE PLAINS RESOURCES LTD & MINER RIVER RESOURCES LTD, Nov/97. Assessment Report #093794 by Bernie Kreft.

EAGLE PLAINS RESOURCES LTD, News Release, 14 Jun/2001, 30 Aug/2000, 11 Sep/2000.

EAGLE PLAINS RESOURCES LTD, Aug/2004. Web Site: [www.eagleplains.bc.ca](http://www.eagleplains.bc.ca)

ECONOMIC GEOLOGY, Aug/82, p. 1225-1230.

HIGH-SENSE GEOPHYSICS LTD, Jun/98. Assessment Report #093867 by D. McGill and B. Lo.

HUNT, J.A., 1999. Preliminary stratigraphy and distribution of Devono-Mississippian massive sulphide-bearing volcanic rocks in the Mount Vermillion area, Pelly Mountains (105G/5 and G/6), southeast Yukon. In: Yukon Exploration and Geology 1998, C.F. Roots and D.S. Emond (eds.), Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p. 73-89.

HUNT, J.A., Volcanic-associated massive sulphide (VMS) mineralization in the Yukon-Tanana Terrane and coeval strata of the North American miogeoclinal, in the Yukon and adjacent areas. Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada, Bulletin 12, 107 p.

MINERAL INDUSTRY REPORT 1976, p. 192-193; 1977, p. 81.

YUKON EXPLORATION & GEOLOGY 1996, p. 20, 43; 1997, p. 18; 1998, p.19; 1999, p. 22; 2000, p. 9-11; 2001, p. 10-11, 24.

Work History

Date	Work Type	Comment
12/31/2002	Geochemistry	Work carried out in 4 principal areas. Following up results obtained the previous year. Began archiving results in GIS system.
12/31/2001	Geology	Work mainly carried out on newly staked areas.
12/31/2001	Geochemistry	Also silt sampling. Work mainly carried out on newly staked areas.
12/31/2000	Drilling	Five holes, 509 m.
12/31/2000	Geology	
12/31/1999	Geology	
12/31/1999	Other	
12/31/1999	Geochemistry	
12/31/1998	Geology	
12/31/1998	Geochemistry	
12/31/1998	Ground Geophysics	
12/31/1998	Other	
12/31/1997	Airborne Geophysics	Also magnetometer and VLF surveys.
12/31/1996	Geology	
12/31/1996	Geochemistry	
12/31/1996	Trenching	
12/31/1977	Geology	
12/31/1977	Ground Geophysics	Also EM survey.
12/31/1976	Geochemistry	
12/31/1976	Other	
12/13/2002	Geology	
12/13/2002	Other	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
<a href="#">096497</a>	2013	Data Compilation and Geochemical Assessment Report for the Fire (Chzerpnough) and Ice (BNOB) Properties	Data Compilation - Pre-existing Data, Digitizing Data - Pre-existing Data		
<a href="#">096777</a>	2010	2010 Geological and Geochemical Assessment Report for the Fire	Rock - Geochemistry, Scintillometer - Ground Geophysics,		

<a href="#">094905</a>	2007	2007 Geological and Geochemical Assessment Report for the Fire (Chzerpnough), Ice (BNOB) and Melt Properties	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology		
<a href="#">094392</a>	2002	Geological Report for the Fire (Chzerpnough), Ice (BNOB) and Melt Properties	Rock - Geochemistry, Silt - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology		
<a href="#">094267</a>	2001	Geological Report for the Fire(Chzerpnough), Ice(Bnob) and Melt Properties Pelly Mountain Project	Soil - Geochemistry, Prospecting - Other		
<a href="#">094200</a>	2000	Diamond Drilling Geological Report for the FIRE(Chzerpnough) and ICE(BNOB) Properties	Diamond - Drilling, Soil - Geochemistry, Detailed Bedrock Mapping - Geology	7	616
<a href="#">094001</a>	1998	1998 Project Report on the Fire & Tree Property	Electromagnetic - Airborne Geophysics, Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Magnetic - Airborne Geophysics, Rock - Geochemistry, Rock - Geochemistry, Soil - Geochemistry, Soil - Geochemistry, Bedrock Mapping - Geology, Detailed Bedrock Mapping - Geology, EM - Ground Geophysics, EM - Ground Geophysics		
<a href="#">093794</a>	1997	Geological Assessment Report for the Chzerpnough Mineral Property [Char 1-30 and Fire 1-12 Claims]	Rock - Geochemistry, Detailed Bedrock Mapping - Geology, Hand - Trenching		
<a href="#">093867</a>	1997	Helicopter EM, Magnetic and VLF Survey on the Fire 1-12, Char 1-30 and Tree 1-56 Claims	Electromagnetic - Airborne Geophysics, Magnetic - Airborne Geophysics		
<a href="#">093607</a>	1996	Geological Assessment Report for the Fire 1-12 Mineral Claims	Rock - Geochemistry, Bedrock Mapping - Geology, Backhoe - Trenching		
<a href="#">061628</a>	1977	Geological and Geophysical Report, Chzerpnough Claim Group	Bedrock Mapping - Geology, EM - Ground Geophysics, Magnetics - Ground Geophysics		
<a href="#">090173</a>	1976	Geochemical Report, Chzerpnough Claim Group	Soil - Geochemistry		

## Related References

Number	Title	Page(s)	Reference Type	Document Type
<a href="#">ARMC003589</a>	Reports for Howru, Dwonk, Chzerpnough and MM properties		Property File Collection	Report
<a href="#">ARMC010070</a>	Cyprus Anvil Mining Corporation - Chzerpnough claims - geology - 105-F-9		Property File Collection	Geoscience Map (Geological - Bedrock)
<a href="#">ARMC008738</a>	Certificate of Analysis - iPL 96F0523 - Fire and Ice claims		Property File Collection	Assays
<a href="#">ARMC008739</a>	Correspondence Re: Eagle Plains Resources Fire and Ice claims		Property File Collection	Miscellaneous Company Documents
<a href="#">ARMC008740</a>	News releases - Fire and Ice claims		Property File Collection	News Release
<a href="#">ARMC014341</a>	1978 geological report on the Chzerpnough claim group		Property File Collection	Report