



Occurrence Details

Occurrence Number: 115I 037

Occurrence Name: Cash

Occurrence Type: Hard-rock

Status: Deposit

Date printed: 8/5/2025 9:05:01 AM

General Information

Primary Commodities: copper, molybdenum

Secondary Commodities: antimony, gold, lead, silver, zinc

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

Location(s): 62°25'45" N - -137°37'12" W

NTS Mapsheet(s): 115I05

Location Comments: Georeferenced from Figure C1 (p. 13) in AR 061206.

Hand Samples Available: No

Last Reviewed:

Capsule

Work History

Staked as the Cash and Johnny cl (Y39873) in November 1969 by E. Schiller and optioned to Atlas Exploration Ltd., which carried out geochemical silt sampling and geological mapping in 1970.

The west half was re-staked as Car cl (Y78734) in May 1974 by the Carmacks Syndicate (Castlemaine Exploration Ltd., Welcome North Mines Ltd., W.M. Bath Inv Ltd. and Ventures West Capital Ltd.), and optioned to a joint venture between Western Mines Ltd., Belmoral Mines Ltd. and Cream Silver Mines Ltd., which carried out grid geochemical soil sampling and magnetometer surveying in 1974, added 96 EX cl (Y91625) in November 1974 and drilled 12 holes (1,026.3 m) in 1975.

The east half was re-staked as Bear and Fox cl (Y80423) in August/September 1974 by Klotassin Joint Venture (Newconex Canada Exploration Ltd., Marietta Resources International Ltd., Molybdenum Corporation of America) which carried out magnetic surveying, grid soil sampling and hand pitting in 1974, added the Roc cl (Y91802) in December 1974 and constructed an airstrip and participated in an IP survey with Western Mines Ltd., et al in 1975.

Re-staked as Cash cl (Y82667) in July 1984 by Archer, Cathro, which explored by bulldozer trenching in 1984 and sold the property to Nordac Mining Corporation, which added more claims and performed mapping and geochemical sampling in 1985. Nordac changed its name to Big Creek Resources Ltd. and vended the property into Big Creek Joint Venture (Big Creek Resources Ltd. and Rexford Minerals Ltd.) in the spring of 1987. Big Creek Joint Venture optioned the claims in 1988 to Rinsey Mines Ltd, which built an access road in 1989 then sold the claims to Auspex Gold Ltd. in February 1990. A.C. Main fringed the claims with Lotsa cl (YB27133) in February 1990. Big Creek Resources Ltd. optioned the Cash property and the surrounding claims, including the Lotsa group, in December 1990, and added Big cl (YB35594) in the same month, and added more Big claims (YB35650) in February 1991. Two diamond drill holes (387.1 m) were drilled in November 1991. Big Creek changed its name to Cash Resources Ltd. and performed line cutting on the Cash, Fox, Lotsa, Nex, Bear, Big and Nitro claims in 1993. In January 1994, Cash Resources transferred the claims back to Archer, Cathro and Associates (1981).

Regional & Property Geology

The occurrence is partly underlain by Yukon-Tanana Terrane (YTT). The rocks of the YTT in this region consist of Early Mississippian metamorphic rocks separated into meta-sedimentary and meta-igneous suites. The meta-sedimentary suite consists of micaceous quartz-feldspar gneiss, schist and quartzite. The meta-igneous package is comprised of biotite-hornblende feldspar gneiss and coarse-grained granodiorite orthogneiss with lesser amphibolite.

The YTT basement rocks are cut by numerous plutonic and volcanic events from the Mesozoic (Allan & Friend, 2018; AR 091619), including:

1. Early Jurassic granodiorite to granite and monzonite to syenite plutonic suites;
2. Mid-Cretaceous Mount Nansen Suite andesite;
3. Mid-Cretaceous Whitehorse granodiorite, quartz monzonite and granite;
4. Late Cretaceous Casino calc-alkaline suites; and,
5. Feldspar porphyry dykes and plugs.

The Cash occurrence is located on the south side of the Big Creek Fault and associated with northerly trending feldspar porphyry dykes and plugs crosscutting Paleozoic schists and syenites (AR 091619; Ryan et al., 2013).

Mineralization & Results

Copper, molybdenum and gold occur in a 3,050 x 900 m area of porphyry-style mineralization associated with northerly trending feldspar porphyry dykes and plugs. Mineralization occurs as finely disseminated pyrite and chalcopyrite with minor molybdenite in hairline quartz veins (AR 090067; AR 091619).

Based on the 1975 to 1977 drilling (20 shallow drill holes spaced at 150 m centres), a maximum hypogene grade of 0.17% Cu and 0.018% MoS₂ within a volume of 2,267,962,000 tonnes to a depth of 305 m. Gold content is about 0.2 g/t and silver content ranges from about 0.4 to 9.0 g/t. Four of the early drill holes defined a northwest limit to the deposit, which is still open to three sides and to depth (AR 090067).

Two zones grading better than 0.4% Cu equivalent (using 1977 Cu and Mo prices) have been defined to date. The Journeay Zone, the initial discovery, lies at the southwest end of the area of mineralization and is covered by thin overburden. The best hole in this zone (W3) averaged 0.28% Cu and 0.054% MoS₂ over a core length of 79 m. The Jensen Zone occurs at the northeast end of the drill pattern and was found in an area of deep overburden by 1977 hole K4, which averaged 0.2% Cu and 0.054% MoS₂ over a core length of 57 m (AR 090067).

The 1984 trenching explored gold soil geochemical anomalies associated with the exposed portion of the porphyry copper deposit. The 1985 geochemical sampling outlined three areas of gold and gold-arsenic soil geochemical anomalies. These appear to be related to fault structures peripheral to the main porphyry deposit. A specimen of arsenopyrite-rich float found during construction of the airstrip in 1975 assayed 68 g/t Au, 710 g/t Ag, 12.9% Pb, 6.5% Zn, 0.2% Cu and 2.9% Sb and may have been derived from one of these anomalies (AR 091619).

The 1991 drill holes returned consistent values in copper and molybdenum, including an intersection of 0.21% Cu, 0.015% Mo and 0.14 g/t Au over 234.7 m in hole 91-2 (093001).

Work History

Date	Work Type	Comment
12/31/1991	Drilling	Two holes, 387.1 m.
12/31/1985	Geology	
12/31/1985	Geochemistry	
12/31/1984	Trenching	
12/31/1977	Drilling	Eight holes, 858 m.
12/31/1975	Development, Surface	
12/31/1975	Drilling	Twelve holes, 1,026 m.
12/31/1975	Ground Geophysics	
12/31/1974	Geochemistry	
12/31/1974	Ground Geophysics	
12/31/1974	Trenching	
12/31/1969	Geology	
12/31/1969	Geochemistry	
12/13/1984	Geochemistry	
12/13/1984	Geochemistry	

Assessment Reports that overlap occurrence

Report Number	Year	Title	Worktypes	Holes Drilled	Meters Drilled
093152	1993	Linecutting Report Patriot Resources Ltd. Cash Property - Nitro Property	Line Cutting - Other		
091806	1985	Report on Soil Sampling and Economic Potential of the Cash Property	Rock - Geochemistry, Soil - Geochemistry		
091619	1984	Bulldozer Trenching at Bear, Fox and Cash Claims	Rock - Geochemistry, Soil - Geochemistry, Mechanical - Trenching		
090067	1975	Summary Report, 1975 Mt. Freegold Project Carmacks	Diamond - Drilling, IP - Ground Geophysics, Line Cutting - Other, Surveying - Other	12	1026.26
090082	1975	A Report on a Time Domain Induced Polarization Survey on Parts of the Car, Bear, and Fox Claim Groups	IP - Ground Geophysics		
061206	1975	Geology, Soil Geochemistry and Magnetic Survey of the Cash Property (Bear and Fox Claims)	Soil - Geochemistry, Bedrock Mapping - Geology, Magnetics - Ground Geophysics, Line Cutting - Other, Hand - Trenching		
060211	1970	Geological and Geochemical Report on the Johnny-Cash Group	Silt - Geochemistry, Bedrock Mapping - Geology		

Related References

Number	Title	Page(s)	Reference Type	Document Type
ARMC008516	Fact sheet - Cash Cu+Mo+Au porphyry		Property File Collection	News Release
ARMC012670	Report for Bob Cathro, Archer Cathro - 27 Samples from altered porphyry intrusive rocks and metasediments & The Cash: A new copper-molybdenum target		Property File Collection	Miscellaneous Company Documents
ARMC012936	Claim map - Johnny and Cash claims - Noswad project		Property File Collection	Geoscience Map (General)
ARMC012939	Field sheet - Yukon River area with geology - Klazan, Johnny and Cash claims		Property File Collection	Geoscience Map (Geological - Bedrock)
YEG20174	New contributions to the bedrock geology of the Mount Freegold district, Dawson Range, Yukon (NTS 115I/2, 6 and 7)		Yukon Geological Survey	Annual Report Paper
2018-2	Bedrock geological map of the Mount Freegold district, Dawson Range		Yukon Geological Survey	Open File (Geological - Bedrock)

Resource/Reserve

Year	Zone	Type	Commodity	Grade	Tonnage	Amount	Reported Amount	43-101 Compliant	Cut-off
1977	JOURNEAY (OPEN PIT)	Historical Estimate	copper	.17 %	36,287,390		No	No	Unknown

Calculation based on arithmetic average of 16 drill holes. Only a rough estimation. Reported in Mineral Industry Report 1977, Yukon Territory p. 70-71. At the time, E.M. Jensen was a district geologist employed by Dept of Indian and Northern Affairs in Whitehorse, Yukon.

1977	JOURNEAY (OPEN PIT)	Historical Estimate	molybdenum	.018 %	36,287,390		No	No	Unknown
------	---------------------	---------------------	------------	--------	------------	--	----	----	---------

Calculation based on arithmetic average of 16 drill holes. Only a rough estimation. Reported in Mineral Industry Report 1977, Yukon Territory p. 70-71. At the time, E.M. Jensen was a district geologist employed by Dept of Indian and Northern Affairs in Whitehorse, Yukon.

Drill core at YGS core library					
Number	Property	Year Drilled	Core Size	Photos	Data
BC-91-1	Cash	1991	HTW-NTW	16	8
BC-91-2	Cash	1991	HTW-NTW	34	1
K-1	Cash	1977		12	0
K-2	Cash	1977		14	0
K-3	Cash	1977		0	0
K-4	Cash	1977		0	0
K-5	Cash	1977		0	0
K-6	Cash	1977		0	0
K-7	Cash	1977		0	0
K-8	Cash	1977		0	0
WM75-01	Cash	1975	BTW	0	1
WM75-02	Cash	1975	BTW	0	1
WM75-03	Cash	1975	BTW	0	1
WM75-09	Cash	1975	BTW	0	1
WM75-10	Cash	1975	BTW	8	1
WM75-11	Cash	1975	BTW	8	1
WM75-12	Cash	1975	BTW	4	1
WM75-13	Cash	1975	BTW	6	1
WM75-14	Cash	1975	BTW	4	1
WM75-15	Cash	1975	BTW	4	1
WM75-16	Cash	1975	BTW	12	1
WM75-17	Cash	1975	BTW	8	1