

# Yukon hard rock mining, development and exploration overview 2020

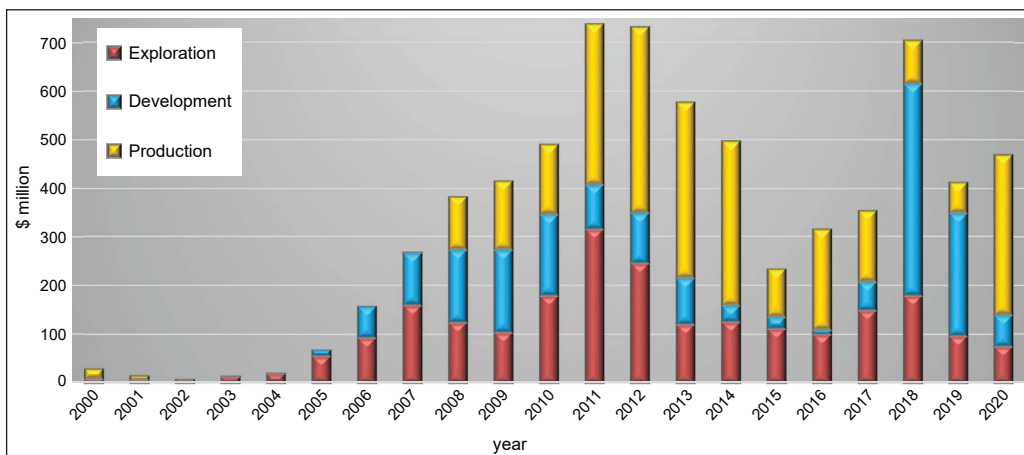
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Yukon Geological Survey

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## Introduction

Yukon mineral exploration activity was severely affected by the COVID-19 pandemic and associated travel restrictions early in the year. As the summer began, exploration and mining companies were able to adjust their operating procedures and develop plans to allow them to adapt to the new reality. Companies implemented measures such as limiting the number of persons in camps, hiring local Yukon-based employees and contractors, increasing work rotation times so that employees spent less time in self-isolation, arranging for hotels to be used for self-isolation centres, having self-isolation spaces and procedures in camps and limiting the number of non-project personnel on site. These measures were crucial in turning around what was looking like a bleak exploration season and allowing for some sense of normalcy.

An increase in precious and base metal prices in mid-summer provided a much-needed shot in the arm for junior exploration companies. Yukon Geological Survey (YGS) tracks mineral sector spending through press releases, SEDAR and correspondence with companies. Although spending projections were dire at the start of the field season, by year-end, exploration expenditures are expected to be between \$70 and \$80M (vs. \$117M in 2019). Development expenditures for the year are expected to be \$65M, down from \$225M in 2019. The drop in development expenditures is primarily due to the completion of construction at Victoria Gold Corp.'s Eagle Gold mine. Year end metal production for 2020 is approximately \$300M with production coming from Eagle Gold, Minto and the newly re-opened Keno Hill mines (Fig. 1).



**Figure 1.** Estimated exploration and development expenditures on hard rock projects and mine production values, 2000–2020.

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Claim staking in 2020 was about the same as in 2019, with 2053 claims staked as of November 30. The number of claims in good standing is 171 218, down

from the all-time high of 252 902 in 2012 (Fig. 3). Drilling numbers were down significantly in 2020, 120 000 m as compared to 226 250 m in 2019 (Fig. 4).

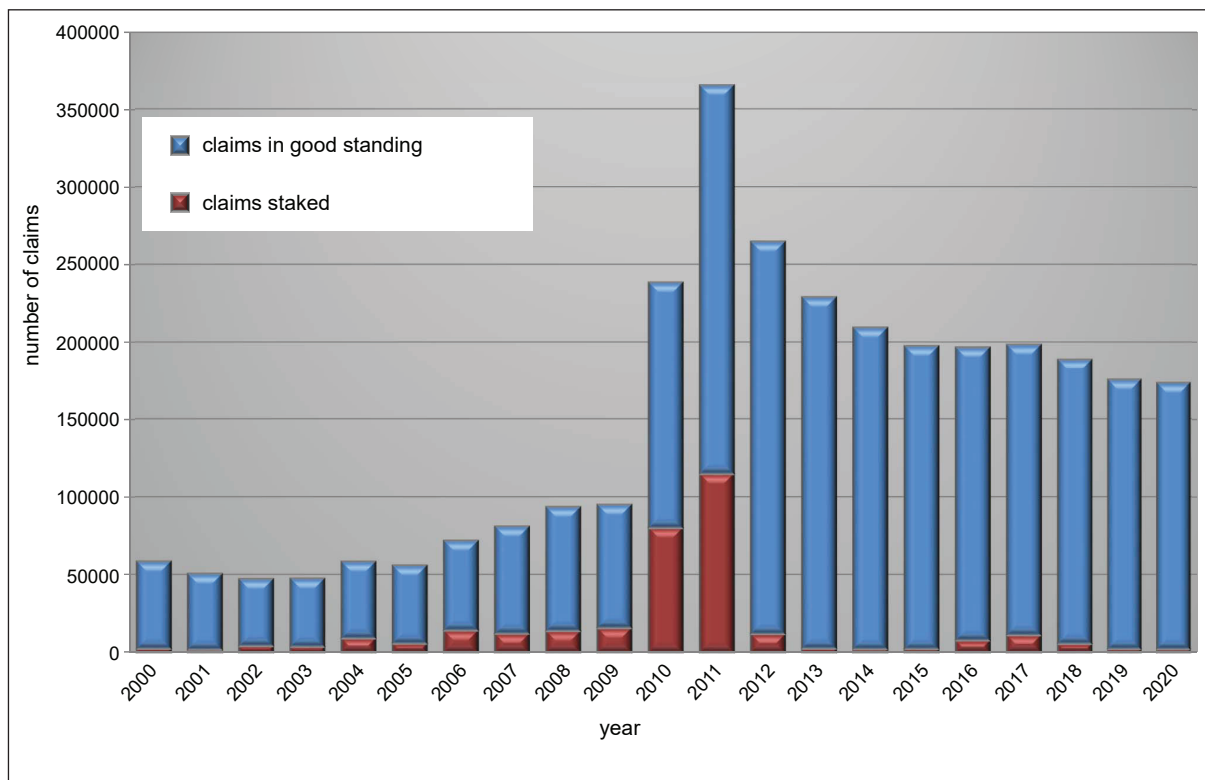


Figure 3. Hard rock claims staked and in good standing, 2000–2020.

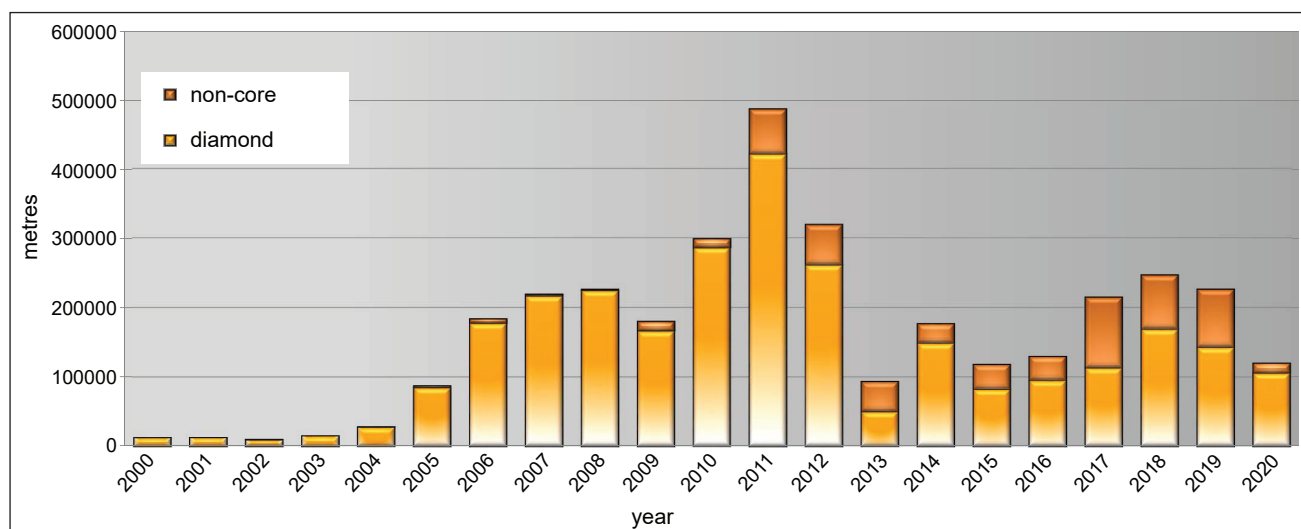


Figure 4. Diamond drilling and reverse-circulation or rotary air blast drilling, 2000–2020.

## Hard rock mining

Victoria Gold Corp. ([www.vgcx.com](http://www.vgcx.com)) completed development of its Eagle Gold intrusion-related gold deposit on its Dublin Gulch property after 26 months of construction (Fig. 5). The company announced commercial production on July 1, 2020. They are projecting 2020 gold production to be between 110,000 and 116,000 ounces and are expecting to be in full production in 2021 at 210,000 ounces of gold per year. The high gold prices in 2020 allowed the company to focus on early repayment of debt and they have been studying the possibility of production increase with year-round stacking. High gold prices also meant the company could convert lower grade resources into reserves, which has significantly extended the mine life.



**Figure 5.** Victoria Gold's Eagle Mine ore dump. Photo from Victoria Gold Corp. website, accessed October 29, 2020.

Victoria also completed exploration programs on their Raven and Lynx targets. At Raven, they conducted soil sampling, trenching and drilled 35 diamond drill holes (8040 m). At Lynx, they conducted soil sampling, geological mapping, trenching and drilled 4 diamond drill holes (594 m). The results at Raven more than doubled the strike length of the zone to over 450 m and returned numerous drill intercepts with grades

ranging from 0.42 g/t Au over 240.8 m to 2.77 g/t Au over 65.7 m. At Lynx, the drill program returned 0.49 g/t Au over 153.8 m and 1.26 g/t Au over 11.9 m, while results from the trenching program include 4.64 g/t Au over 32 m, 3.33 g/t Au over 16.0 m, 1.62 g/t Au over 46.0 m and 1.35 g/t Au over 80.0 m.

The Minto Mine ([www.mintomine.com](http://www.mintomine.com)) had its first full year of operations under new owner Pembridge Resources Plc ([www.pembridgeresources.com](http://www.pembridgeresources.com)). The production at the copper-gold-silver mine averaged 2000 tons per day (tpd) for much of the year. The company is working to increase production to 4000 tpd once it receives the water license for the Minto East II and Minto North II deposits (Fig. 6). The company also completed 21 411 m of diamond drilling in 132 holes from surface at the Minto North deposit and from underground at the Copper Keel deposit. Results from this drilling is pending.

Alexco Resource Corp. ([www.alexcoresource.com](http://www.alexcoresource.com)) announced in June that they had received their amended water license and immediately began work to re-start the mining operation at their silver-lead-zinc Keno Hill mine site. On November 24, they announced the first concentrate production from the mill. The first ore to arrive at the mill was from the Bellekeno deposit. The company is ramping up for production from the Flame & Moth deposit and eventually from the Birmingham deposit, which it hopes to have fully operational in the first half of 2021. Reserves for the project currently stand at 1.2 million tonnes at a grade of 805 g/t Ag. The company is projecting 4.0M ounces



**Figure 6.** Minto mine underground. Photo from Minto Mine website, accessed December 14, 2020.

of silver production annually, once in full production, giving it an eight year mine life. Alexco also conducted deep drilling on the Birmingham “deep” target, drilling 7653 m in 11 holes this year.

In 2019, Yukon Zinc Corp. ([www.yukonzinc.com](http://www.yukonzinc.com)) sold the Wolverine Mine to Phoenix Global Investments Inc. (<https://www.phoenixinvest.ca>). The mine is located in eastern Yukon and is a Zn-Pb-Cu-Ag-Au volcanogenic massive sulphide (VMS) deposit. The mine remains in temporary closure, as it has been since 2015. PricewaterhouseCoopers, the receiver, has taken over care and maintenance of the site. The Government of Yukon has been managing water issues at the site using some of the posted security.

## Permitting and mine development

BMC Minerals Ltd. (<http://bmcminerals.com>), a private company, received the Final Screening Report from the Yukon Environmental and Socio-economic Assessment Board (YESAB) on the company’s Kudz Ze Kayah mine proposal on October 21. The report recommended that the project should proceed, subject to 30 mitigative measures aimed at controlling, reducing, or eliminating significant adverse effects from the operation, and 6 monitoring measures aiding in adaptive management of the project. BMC released an updated feasibility study for the Zn-Pb-Cu-Au-Ag VMS deposit, incorporating the recommendations of the Screening Report, and the company is now preparing the development permit applications. Some of the key financial metrics for the project are (all dollar amounts are in \$US):

Predevelopment capital cost to production	\$376 million
Projected After Tax Net Present Value (NVP <sup>7%</sup> )	\$617 million
After tax Internal Rate of Return (IRR)	45.9%
Operating cash flow margin	43%
Cash Cost of Production (Ag) after by-product credits	-\$22.13/oz
Targeted first production	late 2023
Reserve life of Mine (ABM only)	9 years

Financial metrics from company website December 2020.

Newmont Corporation ([www.newmont.com](http://www.newmont.com)) submitted its application for the Coffee gold mine to the Yukon Environmental and Socioeconomic Assessment Board (YESAB) in the spring of 2017. The proposal is progressing through the assessment process and is now in the “Developing the Draft Screening Report” stage, which is scheduled for completion by January 25, 2021. Newmont announced an updated resource in June of 58.1M tonnes grading 1.43 g/t Au for a total contained 2.67M ounces of gold in the Measured, Indicated and Inferred categories. The company is working to update the feasibility study while they await a mine permit. In 2020, the company conducted soil sampling, trenching and ground geophysics on targets outside the deposit area.

Western Copper and Gold Corp. ([www.westerncopperandgold.com](http://www.westerncopperandgold.com)) continues to advance its Casino porphyry Cu-Au-Mo project in western Yukon. The company updated the resource estimate in July with a Mill Resource in the Measured, Indicated and Inferred (M, I & I) categories of 3.6B tonnes containing 10.7B pounds copper and 19.1M ounces gold and a Heap Leach Resource (M, I & I) of 249M tonnes containing 2.0M ounces Au. Drilling in 2020 (22 diamond drill holes, 12 031 m) focused on targets peripheral to the deposit. The mine project was submitted to YESAB for assessment in January 2014 and the application was bumped up to the “Panel Review” process, the highest level of assessment under the Yukon Environmental and Socio-economic Assessment Act, in February 2018. The company is preparing the necessary documentation to initiate the Panel Review.

Golden Predator Mining Corp. ([www.goldenpredator.com](http://www.goldenpredator.com)) is working to re-start the Brewery Creek gold mine, east of Dawson. The company was assigned the Quartz Mining License from the previous mine operator, Viceroy Resources, in July 2019. The license is due to expire in the spring of 2021. The company is working on a bankable feasibility study, which will include a multi-year mine plan. The company carried out an exploration program in the fall of 2020 consisting of 22 diamond drill holes (1332 m) and 39 RC holes (5800 m) of drilling.

## Significant exploration projects

ATAC Resources Ltd. ([www.atacresources.com](http://www.atacresources.com)) continue to work their Tiger deposit. The 464,000 ounce Au Tiger deposit lies at the western end of ATAC's extensive Rackla gold belt claim block within an area called the Rau Trend. ATAC continued to explore in 2020 focusing on the Airstrip anomaly; they completed trenching, 1876 m of diamond drilling (6 holes) and 1565 m of RAB drilling in 25 holes. Results include 0.51 g/t Au over 36.58 m (ASR-20-018), 3.1 g/t Au over 1.53 m (ASR-20-014) and 0.32 g/t Au over 22.86 m (ASR-20-019).

ATAC also completed a small program of prospecting, soil sampling and trenching at their Connaught property west of Dawson.

The focus of Strategic Metals Ltd.'s ([www.strategicmetalsltd.com](http://www.strategicmetalsltd.com)) activity in 2020 was the Mount Hinton property, east of Keno, where the company diamond drilled 6978 m in 32 holes in the Granite North zone and the Southwest zone. Results from the Granite North zone to date include 1.47 g/t Au over 7.13 m (MH-20-005) and 4.43 g/t Au over 0.62 m (MH-20-008). Results from the drilling at the Southwest zone are pending.

Banyan Gold Corp. ([www.banyangold.com](http://www.banyangold.com)) started the season with plans for a small exploration program with a limited amount of drilling on their AurMac property at the junction of the Eagle Gold Mine access road and the Silver Trail Highway. They were able to raise additional funding mid-summer, which allowed them to expand their program. They drilled through the fall and into December and are expecting to complete approximately 10 000 m of diamond drilling at their Airstrip and Powerline zones:

### Powerline zone

0.72 g/t Au over 128.5 m in AX-20-43  
 0.80 g/t Au over 29.8 m in AX-20-42  
 0.47 g/t Au over 30.5 m in AX-20-41  
 0.76 g/t Au over 13.0 m in AX-20-44  
 0.46 g/t Au over 27.0 m in AX-20-45

### Airstrip zone

1.02 g/t Au over 47.7 m in MQ-20-67  
 0.53 g/t Au over 16.5 m in MQ-20-79  
 0.55 g/t Au over 12.0 m in MQ-20-79  
 0.51 g/t Au over 49.5 m in MQ-20-80  
 0.59 g/t Au over 114.8 m in MQ-20-82

West of Keno, in the Clear Creek area, Sitka Gold Corp. ([www.sitkagoldcorp.com](http://www.sitkagoldcorp.com)) worked its early-stage RC gold property with a diamond drill program of 1500 m in six holes (Fig. 7). Early results include 139.1 m of 0.61 g/t Au in DDRCCC20-004, 38 m of 0.67 g/t Au in DDRCCC20-003, and 57.5 m of 0.50 g/t Au in DDRCCC20-003.

Alianza Minerals Ltd. (<https://alianzaminerals.com/>) explored its Mt. Haldane property, a high-grade silver target, with four diamond drill holes (799 m) late in the season. The program tested the West Fault and Middlecoff targets; results from this work are pending.

Metallic Minerals Corp. ([www.metallic-minerals.com](http://www.metallic-minerals.com)) worked properties in the historic Keno silver district in 2020. They drilled 2674 m in 12 diamond drill holes and 2644 m in 30 RAB drill holes on their Keno-Lightning property. They also drilled 5 RAB holes for 392 m on their McKay Hill project. Results from these programs are pending.

Mayo Lake Minerals Inc. (<https://mayolakeminerals.com>) carried out a late-season diamond drill program at its Carlin-Roop gold project north of Mayo Lake (6 holes, 900 m). Results from this work are pending.

White Gold Corp. (WGC; [www.whitegoldcorp.ca](http://www.whitegoldcorp.ca)) focused its exploration program on two areas of the company's large land holdings in the Dawson region: JP Ross and Golden Saddle. At JP Ross, the company conducted GT Probe, trenching, soil sampling, magnetics and VLF-EM surveys. Highlights from this work include 8.88 g/t Au over 2.5 m from a trench at the Stage Fright target; 3.40 g/t Au over 1.5 m and 1.15 g/t Au over 8.5 m from trenches at the Sabotage target; and numerous anomalous gold values ranging from 0.17 g/t Au to 24.4 g/t Au from top of bedrock GT Probe samples at the Notorious target.



**Figure 7.** Drill rig at Sitka Gold Corp's RC property. Photo courtesy of Sitka Gold.

At Golden Saddle, the company did 3000 m of diamond drilling and drilled 20 RAB holes (results pending). A short distance away, at the Ryan's Surprise target, the company drilled six diamond drill holes for 1632.5 m returning the following results:

Hole	Interval (m)	Gold (g/t)
WHTRS20D013	3.47	17.4
WHTRS20D014	6.50	3.28
WHTRS20D015	2.00	4.90
WHTRS20D016	22.00	1.19
WHTRS20D017	1.24	8.82
and	3.76	10.96
and	17.00	1.43
WHTRS20D018	12.30	8.69

Klondike Gold Corp. ([www.klondikegoldcorp.com](http://www.klondikegoldcorp.com)) explored its Klondike Gold property south of Dawson with 52 diamond drill holes (4055 m) testing the Lone Star zone and Stander zone. Highlights from the Stander zone include 7.57 g/t Au over 10.5 m (hole EC20-350). Highlights from the Lone Star zone include 1.07 g/t Au over 61.10 m (LS20-337) and 5.82 g/t Au over 5.00 m (LS20-340).

Flow Metals Corp. explored its Sixty Mile gold project west of Dawson with RAB drilling (835 m), trenching, ground geophysics and re-sampling of historic drill core. Multiple zones with arsenic and gold were identified; assay results are pending.

Golden Sky Minerals Corp. (<https://www.goldenskyminerals.com>) conducted soil sampling and drilled 6 RC holes for 568 m at their Hotspot property south of Dawson, along the Yukon-Alaska border. Highlights of the work are:

Hole	width (m)	Au (g/t)
HSRC-20-01	6.10	1.13
HSRC-20-02	71.63	1.34
HSRC-20-03	39.62	0.39
HSRC-20-04	51.82	0.14
HSRC-20-05	18.29	0.37
HSRC-20-06	83.82	0.40

Golden Sky also completed trenching at their Bullseye property near Wellesley Lake, where they encountered 78.0 m grading 0.69 g/t Au.

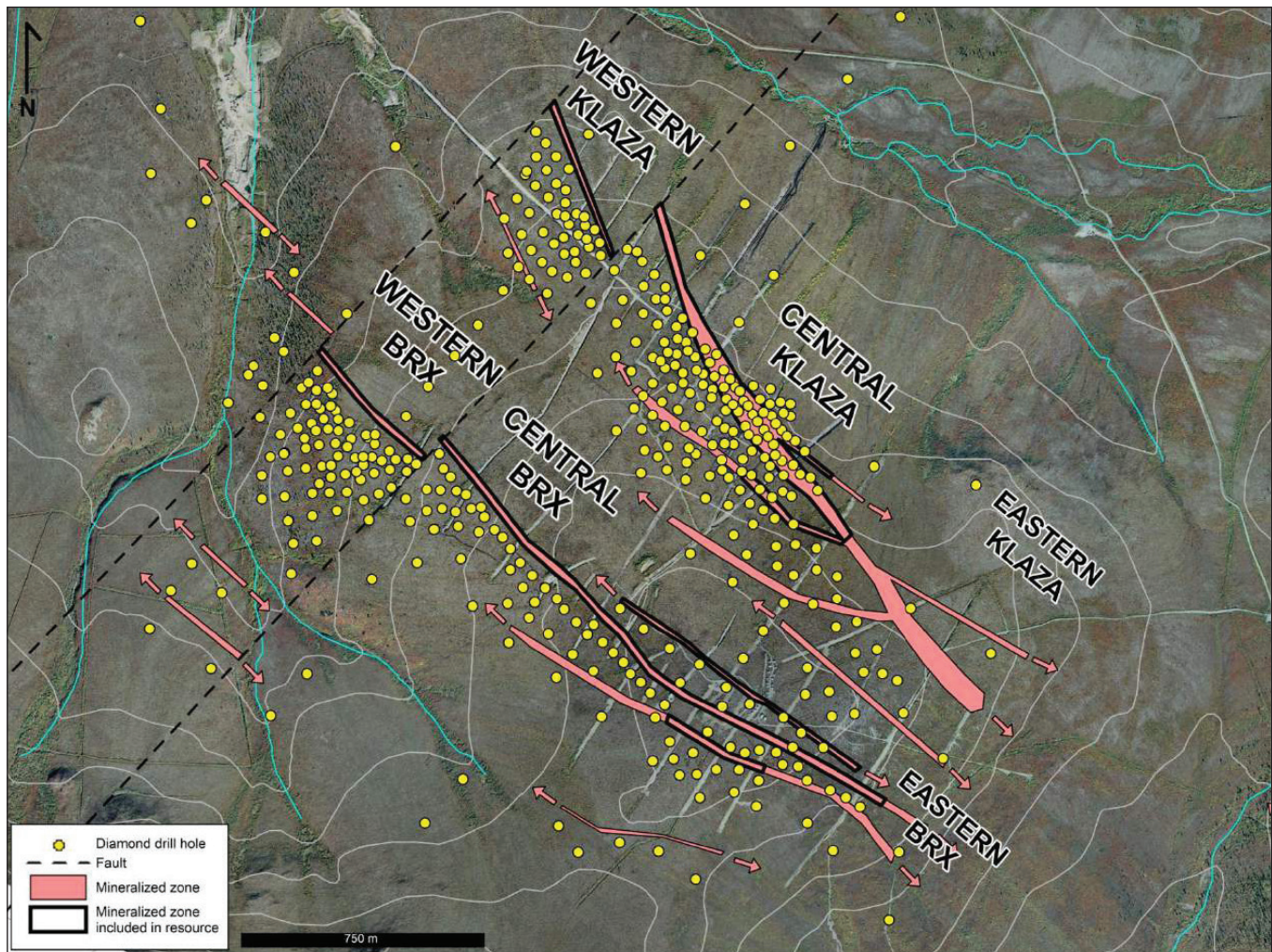
Rockhaven Resources Ltd. ([www.rockhavenresources.com](http://www.rockhavenresources.com)) carried out a late-season diamond drilling program at its epithermal Au-Ag Klaza property (6042 m, 22 holes), which primarily focused on targets peripheral to the main deposit (Fig. 8). The company filed an updated Preliminary Economic Assessment (PEA) in July, which indicated a Post-Tax Net Present Value (NPV; 5%) of CAD \$378M and an Internal Rate of Return (IRR) of 37%, using US \$1450/oz Au and US\$17/oz Ag.

In 2020, Triumph Gold Corp. ([www.triumphgoldcorp.com](http://www.triumphgoldcorp.com)) focused its exploration efforts on shallow high-grade gold targets on their Freegold Mountain project. The company diamond drilled nine holes (2069 m) to

test the Irene-Goldstar epithermal gold-silver target, the Melissa epithermal target, the Keirsten zone, and soil geochemical anomalies east of the Blue Sky and WAu Breccia zones. Results from this program are pending.

Newly formed company, Taurus Gold Corp., conducted a late season drilling program at their Charlotte property in the Mt Nansen area, diamond drilling 2347 m in 11 holes. The drilling was on the Flex zone, an epithermal gold vein target. Results are pending.

Makara Mining Corp. (<https://makaramining.com>) drilled 17 RC holes (1994 m) and conducted an IP survey on their newly optioned Rude Creek gold property east of the Casino deposit. The drill program was designed to target a gold-in-soil anomaly. Drill results are pending.



**Figure 8.** Schematic of mineralized zones at Rockhaven Resources' Klaza deposit. Map from Rockhaven Resources Ltd. website, accessed December 15, 2020.

Whitehorse Gold Corp. ([www.whitehorsegold.ca](http://www.whitehorsegold.ca)), a spin-off company of New Pacific Metals Corp., revisited the Skukum Creek gold project in the Wheaton Valley outside of Whitehorse. The company drilled 4 diamond drill holes for 2091 m. Results are pending.

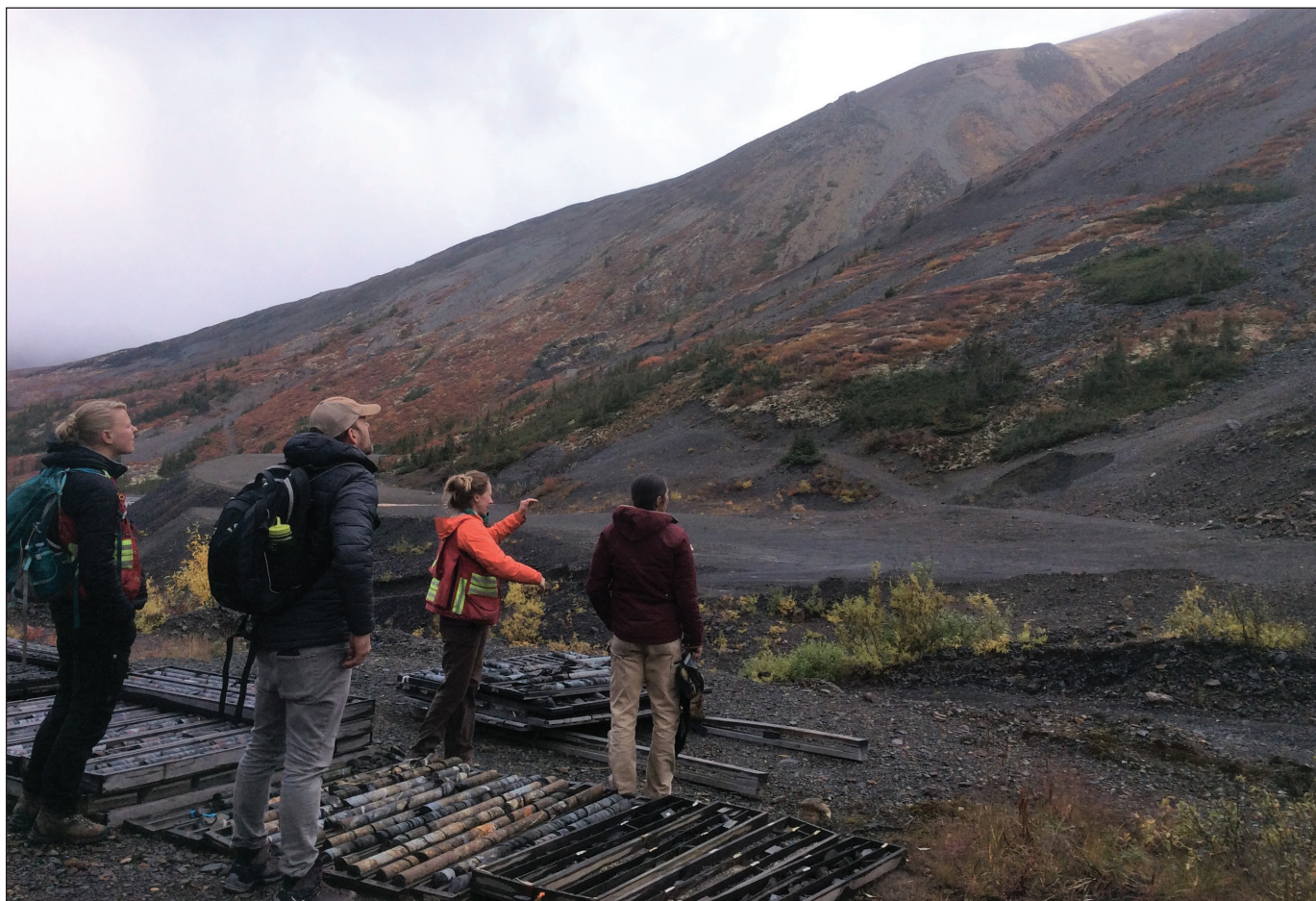
In southeastern Yukon, on the Nahanni Range road, Stratabound Minerals Corp. (<https://www.stratabound.ca>) initially planned a modest exploration program consisting of prospecting, soil sampling, ground magnetic surveying and minor drilling at their Golden Culvert property. As the summer progressed and investment interest in gold explorers increased, the company was able to raise additional funding and added a significant drilling program to their plans. In the end, they drilled 3217 m in 17 diamond drill holes. Results from the drill program are pending, but the company did receive analyses from their surface sampling. The results include surface grab samples containing 320.0 g/t Au, 155.0 g/t Au, 118.0 g/t Au, 92.0 g/t Au,

41.8 g/t Au, 26.6 g/t Au, 17.1 g/t Au and 16.55 g/t Au from a talus slope south of the Main showing.

## Base metals

Fireweed Zinc Ltd. (<http://www.fireweedzinc.com/>) continued to advance its MacMillan Pass sediment-hosted Pb-Zn project (Fig. 9). Ten diamond drill holes (2948 m) were completed at the Boundary zone, predominantly targeting gravity anomalies. Reverse circulation (RC) infill holes (9 holes, 507 m) were drilled at the Tom and Jason deposits. All assays are pending. A late-season airborne VTEM-magnetic geophysics survey was also carried out over the western part of the claim block.

Selwyn Chihong Mining Ltd. continued working at their massive Pb-Zn SEDEX Selwyn Project in southeastern Yukon. The company did a small amount of surface work at the site in 2020.



**Figure 9.** YGS property visit to Fireweed Zinc's MacPass Project.

Cantex Mine Development Corp. ([www.cantex.ca](http://www.cantex.ca)) worked its Pb-Zn-Ag North Rackla property, completing mapping, trenching and diamond drilling (Fig. 10). Drilling at the Main zone intersected visible mineralization to 680 m vertical depth. Drill results from hole DDH YKDD20-159 include 14.90 m of 66.70 g/t Ag, 25.55% Pb + Zn, and multiple shorter significant intersections.

Granite Creek Copper Ltd. ([www.gcxcopper.com](http://www.gcxcopper.com)) completed the acquisition of Copper North Mining Corp. on November 27, adding the high-grade Carmacks Copper deposits to the company's portfolio to complement their Stu (now Carmacks North) Cu-Au-Ag property. The company carried out diamond drilling on both properties; two holes for 527 m at Zone 13 on Carmacks Copper, and four holes for 738 m at Carmacks North. Results are pending.

Nickel Creek Platinum Corp. ([www.nickelcreekplatinum.com](http://www.nickelcreekplatinum.com)) performed a large loop transient EM survey and drilled 2 holes (675 m) at its Nickel Shaw ultramafic hosted Ni-Cu-Co-PGE property. Results are pending.

Go Metals Corp. (<https://gometals.ca>) explored its Monster iron oxide copper-gold property with a late season drill program (530 m of RC drilling in 5 holes; Fig. 11). Results are pending.

Other metals being explored for include shale-hosted vanadium in northern Yukon along the Dempster highway and skarn-hosted tin in southern Yukon.

The exploration season started slowly but gathered speed as the summer progressed. Late season programs overwhelmed the assay labs, and results continue to trickle in. The successes of the 2020 season will continue to reveal themselves in the coming months.



**Figure 10.** Cantex's exploration camp at its North Rackla property.



**Figure 11.** RC drill rig at the Monster IOCG target. Photo from Go Metals Corp. website, accessed November 12, 2020.

## Appendix 1. Exploration projects 2020.

Project	Owner / Optioner	MINFILE	Commodity	Deposit type	Work type	YMEP funded
Alotta (Severance)	Strategic Metals Ltd.	115J 003	copper	porphyry/sheeted vein	P, SGC, RGC	yes
Oli	Strategic Metals Ltd.	115P 030	tin	skarn/replacement	P, SGC, G	yes
Antimony Mountain	RyanWood Exploration Inc.	116B 094	copper	porphyry/sheeted vein	P, SGC, RGC	no
Astickshaf	Williams, Matthew	-	unknown	unknown	P, SGC	yes
AurMac	Banyan Gold Corp.	105M 060	gold	porphyry/sheeted vein	GGP, DD, RGC	yes
Bailey (Benall)	Sans Peur Exploration Services Inc.	105D 177	gold	vein/breccia	CS, SGC, RGC	yes
Barney Ridge	Kestrel Gold Inc.	115P 034	gold	porphyry/sheeted vein	P, SGC	yes
Bellekeno Mine	Alexco Resource Corp.	105M 082	silver	vein/breccia	MD	no
Birmingham Mine	Alexco Resource Corp.	105M 086	silver	vein/breccia	DD, RGC	no
Bix	Archer Cathro and Associates (1981) Ltd.	115P 031	gold	porphyry/sheeted vein	P, SGC, RGC, G	yes
Blackbear (AMI)	Mann, Bill	115N 042	gold	vein/breccia	CS, P, SGC, RGC, G	yes
Bonanza King	Copper North Mining Corp.	115I 010	copper	vein/breccia	P, SGC, G	yes
Bonanza	White Gold Corp.	-	gold	vein/breccia	SGC, GGP	yes
Border	Mann, Bill	-	unknown	unknown	P, SGC, RGC, T	yes
Brewery Creek	Golden Predator Canada Corp.	116B 160	gold	porphyry/sheeted vein	DD, RGC, NC	no
Bullseye	Golden Sky Minerals Corp.	-	gold	unknown	CS, P, SGC, RGC, T	yes
Hotspot	Golden Sky Minerals Corp.	115N 101	gold	unknown	SGC, NC, RGC	yes
Carmacks Copper	Granite Creek Copper Ltd.	115I 008	copper	porphyry/sheeted vein	DD, RGC	no
Stu (Carmacks North)	Granite Creek Copper Ltd.	115I 011	copper	porphyry/sheeted vein	SGC, RGC, DD, CR	no
Casino	Western Copper and Gold Corp.	115J 028	copper	porphyry/sheeted vein	DD, RGC	no
Charlotte	Taurus Gold Corp.	115I 137	gold	vein/breccia	G, DD, RGC	no
Clear Creek	StrataGold Corp.	115P 023	gold	porphyry/sheeted vein	SGC, RGC, GGP, T	yes

Abbreviations

CS – claim staking  
P – prospecting  
G – geology  
T – trenching

SGC – soil/silt geochemistry  
RGC – rock geochemistry  
AGP – airborne geophysics  
GGP – ground geophysics

DD – diamond drilling  
NC – non-core drilling  
CR – road construction  
MD – mine development

## Appendix 1 (continued). Exploration projects 2020.

Project	Owner / Optioner	MINFILE	Commodity	Deposit type	Work type	YMEP funded
Clear Creek	Kreft, Bernie	115P 011	gold	porphyry/sheeted vein	P, SGC, RGC, T	yes
Coffee	Newmont Corp.	115J 110	gold	vein/breccia	SGC, RGC, GGP, T	no
Connaught	ATAC Resources Ltd.	115N 040	gold	vein/breccia	CS, P, SGC, RGC, T	yes
Rau Trend	ATAC Resources Ltd.	106D 005	gold	skarn/replacement	P, G, SGC, T, DD, RGC, NC	no
Dale	536005 Yukon Inc.	105B 007	silver	skarn/replacement	RGC, GGP, T	yes
Dempster Vanadium	DV196 Holding Corp.	116I 084	vanadium	sediment associated	SGC, RGC	yes
Dorian Miner	Schulze, Carl	105D 066	gold	vein/breccia	SGC, RGC, G	yes
Eagle Gold Mine	Victoria Gold Corp.	106D 025	gold	porphyry/sheeted vein	MD	no
Lynx	Victoria Gold Corp.	106D 029	gold	porphyry/sheeted vein	G, SGC, RGC, T, DD, CR	no
Raven (Erin)	Victoria Gold Corp.	106D 018	gold	porphyry/sheeted vein	G, SGC, T, DD, CR, RGC	no
Dubloon	Richards, Gord	-	unknown	unknown	NC, RGC	yes
Einarson	18526 Yukon Inc.	115O 017	gold	sediment associated	P, G, SGC, RGC	yes
Ellen	Group Ten Metals Inc.	115A 041	copper	volcanic associated	P, G, SGC, RGC	yes
Freegold Mtn	Triumph Gold Corp.	115I 107	copper	porphyry/sheeted vein	RGC, DD	no
Golden Culvert	Stratabound Minerals Corp.	105H 067	gold	vein/breccia	P, G, GGP, SGC, RGC, T, DD	yes
Goldorak	Hulstein, Roger	105L 051	gold	porphyry/sheeted vein	CS, P, G, SGC, RGC, T	yes
Grabben Gold	Kreft, Bernie	115O 054	gold	unknown	SGC, RGC, T	yes
Hen	White Gold Corp.	115O 168	gold	vein/breccia	GGP, SGC, RGC, T	no
Ind-WGC	White Gold Corp.	115O 095	unknown	unknown	AGP, GGP	no
White Gold	White Gold Corp.	115O 165	gold	vein/breccia	DD, RGC, NC	no
Idaho	ATAC Resources Ltd.	115J 099	gold	vein/breccia	P, G, SGC, RGC	yes
JC	Huber, Marty	105B 040	tin	skarn/replacement	P, SGC, RGC	yes
Joe (Lindsay)	Stuhini Exploration Ltd.	105C 022	unknown	unknown	AGP, DD	no
Jurassic Park	Burke, Ryan	-	unknown	unknown	P, SGC, RGC	yes

## Abbreviations

CS – claim staking  
P – prospecting  
G – geology  
T – trenching

SGC – soil/silt geochemistry  
RGC – rock geochemistry  
AGP – airborne geophysics  
GGP – ground geophysics

DD – diamond drilling  
NC – non-core drilling  
CR – road construction  
MD – mine development

## Appendix 1 (continued). Exploration projects 2020.

Project	Owner / Optioner	MINFILE	Commodity	Deposit type	Work type	YMEP funded
K2	AKG Exploration Inc.	116I 071	vanadium	sediment associated	P, RGC	yes
Keno-Lightning	Metallic Minerals Corp.	105M 011	silver	vein/breccia	DD, NC, RGC	no
King Solomon Project	Kestrel Gold Inc.	115O 188	gold	vein/breccia	P, SGC, RGC, T	yes
Klaza	Rockhaven Resources Ltd.	115I 067	gold	vein/breccia	DD, RGC	no
Kryptos	Mieras, Jeff	-	unknown	unknown	P, SGC, RGC	yes
Kudz Ze Kayah	BMC Minerals (No. 1) Limited	105G 117	zinc-lead	volcanic associated	MD	no
Leota	Goldbank Mining Corp.	115O 074	gold	vein/breccia	P, G, SGC, RGC	no
Lone Star	Klondike Gold Corp.	115O 072	gold	vein/breccia	P, G, SGC, RGC, DD	no
LOTR	Metallic Minerals Corp.	106D 042	silver	unknown	SGC, RGC, T	yes
McCleery	Overland Resources (BC) Ltd.	105C 029	copper	skarn/replacement	P, SGC, RGC	yes
McKay Hill	Metallic Minerals Corp.	106D 038	silver	vein/breccia	P, G, SGC, RGC, NC	yes
Minto Mine	Pembridge Resources plc	115I 021	copper	porphyry/sheeted vein	DD, RGC	no
Monster	Go Metals Corp.	116B 102	copper	IOCG	NC, RGC	yes
Mount Hinton	Strategic Metals Ltd.	105M 052	gold	vein/breccia	P, G, T, DD, CR, RGC	no
Mount Vic	Hill 79 Gold Corp.	115I 068	gold	unknown	P, G, SGC, RGC, AGP	yes
Mt. Haldane	Alianza Minerals Ltd.	105M 032	silver	vein/breccia	DD, RGC	no
Nickel Shāw (Wellgreen)	Nickel Creek Platinum Corp.	115G 024	nickel-PGE	mafic/ultramafic associated	GGP, DD, RGC	no
Nidd (Boundary Zone)	Fireweed Zinc Ltd.	105O 024	zinc-lead	sediment associated	AGP, GGP, DD, RGC	no
Nitra	Banyan Gold Corp.	115P 001	gold	unknown	SGC, GGP	yes
North Rackla	Cantex Mine Development Corp.	106C 088	zinc-lead	Mississippi Valley-type	P, G, SGC, RGC, DD, T	no
Ogi	Fox Exploration	116B 165	zinc-lead	Mississippi Valley-type	NC, RGC	yes
Pelly Mountains (BMC)	BMC Minerals (No. 1) Limited	105G 040	zinc-lead	volcanic associated	RGC, GGP, G	yes

## Abbreviations

CS – claim staking  
P – prospecting  
G – geology  
T – trenching

SGC – soil/silt geochemistry  
RGC – rock geochemistry  
AGP – airborne geophysics  
GGP – ground geophysics

DD – diamond drilling  
NC – non-core drilling  
CR – road construction  
MD – mine development

## Appendix 1 (continued). Exploration projects 2020.

Project	Owner / Optioner	MINFILE	Commodity	Deposit type	Work type	YMEP funded
Porphyry	Hulstein, Roger	115H 038	copper	porphyry/sheeted vein	SGC, RGC, AGP, G, P	yes
RC Gold	Sitka Gold Corp.	115P 061	gold	porphyry/sheeted vein	DD, RGC	yes
Rivier	Rackla Metals Inc.	105G 107	gold	vein/breccia	G, AGP	no
Carlin-Roop	Mayo Lake Minerals	-	silver	vein/breccia	DD, RGC	no
Rude Creek Gold	Makara Mining Corp.	115J 022	gold	porphyry/sheeted vein	CS, GGP, SGC, NC, RGC	yes
Ryan's Surprise	White Gold Corp.	115O 012	gold	vein/breccia	DD, RGC	no
Sands of Time	Milton, Jack	115J 090	copper	unknown	SGC, P	yes
Selwyn	Selwyn Chihong Mining Ltd.	105I 037	zinc-lead	sediment associated	MD	no
Silver Hart	CMC Metals Ltd.	105B 021	silver	vein/breccia	P, SGC, RGC	yes
Sixty Mile	Flow Metals Corp.	-	gold	vein/breccia	GGP, T, NC, RGC	yes
Skukum Creek	Whitehorse Gold Corp.	105D 022	gold	vein/breccia	G, DD, RGC	no
Squid East	Manning Ventures Inc.	115N 096	gold	vein/breccia	P	no
Swift River	Bojtos, Peter	105B 027	zinc-lead	volcanic associated	RGC, G	yes
TBMB	Liverton, Tim	105B 029	zinc-lead	volcanic associated	RGC, G	yes
Tea (Rockland)	White Gold Corp.	115J 038	unknown	unknown	SGC	yes
Ultra	Group Ten Metals Inc.	115B 008	nickel-PGE	mafic/ultramafic associated	G, SGC, RGC, NC	yes
Upper Rackla (BOP)	Kootenay Silver Inc.	-	zinc-lead	Mississippi Valley-type	P, G, SGC, RGC	yes
Ward (Sin)	Burke, Ryan	105D 190	gold	vein/breccia	P, RGC	yes
WRM	Prior, Glen	-	vanadium	sediment associated	CS, P, SGC, RGC,	yes
YMEP 20-006	Arsenault, Chris	-	unknown	unknown	P, SGC, RGC	yes
YMEP 20-025	Hood, William C.	-	unknown	unknown	CS, P, RGC	yes
YMEP 20-032	Arsenault, Chris	-	unknown	unknown	P, SGC, RGC	yes
YMEP 20-036	Jones, Clayton	105E 058	unknown	unknown	P, G, SGC, RGC	yes
YMEP 20-108	Burke, Ryan	-	unknown	unknown	P, SGC	yes

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## Appendix 2. Drilling statistics by project, 2020.

Property	Owner/Optioner	number of holes	number of metres
<b>Diamond Drilling</b>			
Minto Mine	Pembridge Resources plc	132	21 411
Casino	Western Copper and Gold Corp.	49	12 031
Aurex	Banyan Gold Corp.	50	10 000
Birmingham Mine	Alexco Resource Corp.	11	7653
Klaza	Rockhaven Resources Ltd.	22	6042
Raven (Erin)	Victoria Gold Corp.	31	7453
Lynx	Victoria Gold Corp.	4	594
Mount Hinton	Strategic Metals Ltd.	32	6978
Lone Star	Klondike Gold Corp.	52	4055
Golden Culvert	Stratabound Minerals Corp.	17	3217
Nidd (Boundary Zone)	Fireweed Zinc Ltd.	10	2948
Keno-Lightning	Metallic Minerals	12	2674
North Rackla	Cantex Mine Development Inc.	not available	not available
Mt. Haldane	Alianza Minerals Ltd.	4	799
Charlotte	Taurus Gold Corp.	11	2347
Freegold Mountain Project	Triumph Gold Corp.	9	2069
Skukum Creek	Whitehorse Gold Corp.	4	2091
Rau Trend	Atac Resources Ltd.	6	1876
Ryan's Surprise	White Gold Corp.	6	1633
RC Gold	Sitka Gold Corp.	6	1500
Brewery Creek	Golden Predator Canada Corp.	22	1332
Nickel Shāw (Wellgreen)	Nickel Creek Platinum Corp.	2	675
Roop	Mayo Lake Minerals Inc.	6	900
Stu	Granite Creek Copper Ltd.	4	738
Carmacks Copper	Granite Creek Copper Ltd.	2	527
Que	Stuhini Exploration Ltd.	2	
	<b>Total</b>	<b>506</b>	<b>101 543</b>

**Appendix 2 (continued). Drilling statistics by project, 2020.**

Property	Owner/Optioner	number of holes	number of metres
<b>Percussive/Reverse Circulation</b>			
Brewery Creek	Golden Predator Canada Corp.	39	4575
Keno-Lightning	Metallic Minerals Corp.	30	2644
McKay Hill	Metallic Minerals Corp.	5	392
Rude Creek Gold	Makara Mining Corp.	17	1994
Rau Trend	Atac Resources Ltd.	25	1565
Monster	Go Metals Corp.	5	530
Sixty Mile (McDougall)	Flow Metals Corp	15	835
Hen	White Gold Corp.		615
Tom and Jason	Fireweed Zinc Ltd.	9	507
Hotspot	Golden Sky Minerals Corp.	6	568
	<b>Total</b>	<b>151</b>	<b>14 225</b>