

ASX ANNOUNCEMENT

12 May 2020

GNM Investor Presentation and Corporate Video

Great Northern Minerals Limited (“Great Northern Minerals” or the “Company”) (ASX: GNM) is pleased to provide its updated Investor Presentation to the previously released Investor Presentation from 11 February 2020. In addition, the Company has a Corporate Video that can be viewed [HERE](#). The video highlights the three GNM gold projects with previously unseen drone footage.

This announcement has been authorised by the Board or Directors of the Company.

*****ENDS*****

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About Great Northern Minerals Limited

Great Northern Minerals Limited is an ASX-listed gold focused explorer. The Company’s key North Queensland Gold Projects include the Golden Cup, Camel Creek and Big Rush Gold Mines in North Queensland.



“A golden opportunity”

North Queensland Gold Projects





[GNM Corporate Video \(please click here\)](#)



Disclaimer

Preparation

This Presentation has been prepared to provide prospective investors in Great Northern Minerals Limited, ACN 000 002 111, ("The Company" or "Great Northern Minerals"), with general information to assist them in deciding whether they wish to undertake their own investigation and/ or consider a possible investment in the Company or the Company's projects.

This Presentation has not been independently verified for reliability, completeness or accuracy. No representation is made that such information and materials are reliable, complete or accurate. This Presentation is not a prospectus and does not constitute an offer or invitation or recommendation to any person and has been prepared solely for use by persons who are deemed to be "sophisticated investors" as described in the Corporations Act.

Projections and Assumptions

The projections and assumptions in this Presentation are indicative only and are not and should not be relied upon as representations as to future matters. The projections are based on assumptions that may or may not prove to be correct. The recipient must make their own independent assessment and investigation of those projections and assumptions. Investors will be required to undertake at their cost, any additional works needed for an investment decision.

Disclaimer

The Company and its respective shareholders, directors, partners, employees, officers, agents, consultants or advisors disclaim (to the maximum extent permitted by law) all duties and liabilities, including liability for negligence, for any loss or damage which is suffered or incurred by any person acting on any information provided or omitted to be provided by any of them in connection with an investment in The Company or any statements, opinions or matters (expressed or implied) arising out of, or contained in, or derived from, such information

No Offer, Invitation, Recommendation /Advice

The information set out in this Presentation does not constitute an offer or invitation to subscribe for securities in The Company or investment in the assets of the Company, or a recommendation by The Company to any person in respect of any matter.

Competent Persons Statement

The information in this report that relates to Exploration Results and Mineral Resources is based on information compiled by Simon Coxhell (Exploration Results), the Technical Director of Great Northern Minerals, and Andrew Beaton (Mineral Resources) a part time consultant to Great Northern Minerals. Mr Jones and Mr Beaton are both members of the Australasian Institute of Mining and Metallurgy and have sufficient experience of relevance to the styles of mineralisation and type of deposit under consideration and to the activity which they are undertaking to qualify as Competent Persons as defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves." Mr Jones and Mr Beaton consent to the inclusion in this report of the matters based on their information in the form and context in which it appears.

Refer to previous ASX announcements on the 14 May 2019, 20 June 2019, 4 July 2019, 11 July 2019, 5 August 2019, 15 August 2019, 25 November 2019, 10 December 2019, 12 December 2019, 16 December 2019, 20 December 2019, 23 December 2019 and 28 January 2020 in respect of historic drilling intersections, exploration targets and mineral resources. Great Northern Minerals is not aware of any new information or data that materially affects the information included in the relevant market announcements listed.



Corporate Snapshot

Board of Directors

Chairman – Kim Robinson

Managing Director – Cameron McLean

Technical Director – Simon Coxhell

Non Executive Director - Simon Peters

Company Secretary – Aida Tabakovic

Shareholders

Shares on Issue 720,087,117*

Options on Issue 361,276,751*

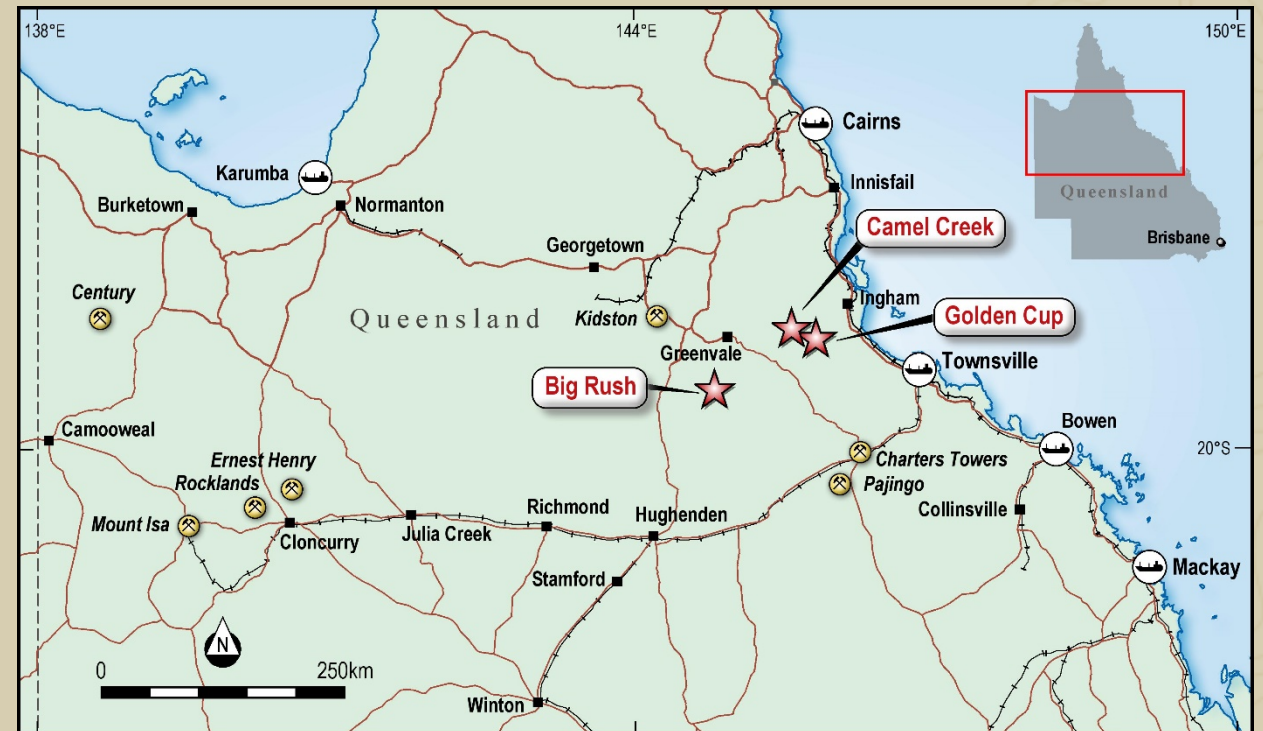
Market Capitalisation \$5.7 million

Top 20 Holders 54%

Cash \$1.5 million*

*Subject to shareholder approval

Gold Portfolio





Investment Highlights

- Highly active explorer in a goldfield with **multi-million ounce** potential (tenure covers 695 km²).
- Maiden gold resource of **30,000 ounces** estimated at Golden Cup in December 2019.
- Maiden gold resource of **47,000 ounces** estimated at Big Rush in February 2020.
- The viability of processing existing heap leach pads being assessed (2.5 million tonnes of material).
- Excellent exploration upside supported by:
 - Previous mining to only shallow depths (<30 m)
 - Limited modern or systematic exploration
 - High-grade drill intersections beneath open pits &
 - Significant Exploration Targets defined
- Gold resources located on granted Mining Leases.

Gold Resources - Golden Ant Project

Project	Tonnes	Grade (g/t Au)	Ounces (Gold)
Golden Cup	256,504	3.6	29,721
Big Rush	558,322	2.62	47,006
TOTAL	814,826	2.93	76,727

Nb. Resources tabled above were estimated above a 0.75 g/t Au cut-off grade.

Exploration Targets to 100m depth- Golden Ant Project

Project	Tonnes		Grade (g/t Au)		Ounces (Gold)	
	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
Golden Cup	450,000	750,000	3.5	5.5	50,643	132,637
Camel Creek	500,000	1,000,000	2.0	3.5	32,154	112,540
Big Rush	1,800,000	3,600,000	2.0	3.0	115,756	347,267
TOTAL	2,750,000	5,350,000	2.3	3.4	200,000	590,000



A Re-discovered Under-explored Goldfield

- In 2019 the goldfield was secured:
 - Camel Creek, Golden Cup & Big Rush Mines purchased
 - Exploration permit applications made &
 - Joint Venture executed with Gold Explorer Pty Ltd
- Project covers 695km² across 11 granted Mining Leases, two 100% owned exploration permits and one joint ventured exploration permit.
- Combined previous open pit gold production of in excess of **160,000 ounces at 1.91 g/t Au**.
- Previous gold production via heap leaching and trial CIL Processing.
- Third party toll treatment facilities at Thalanga, Charters Towers and Mt Garnet all within potential trucking distance.

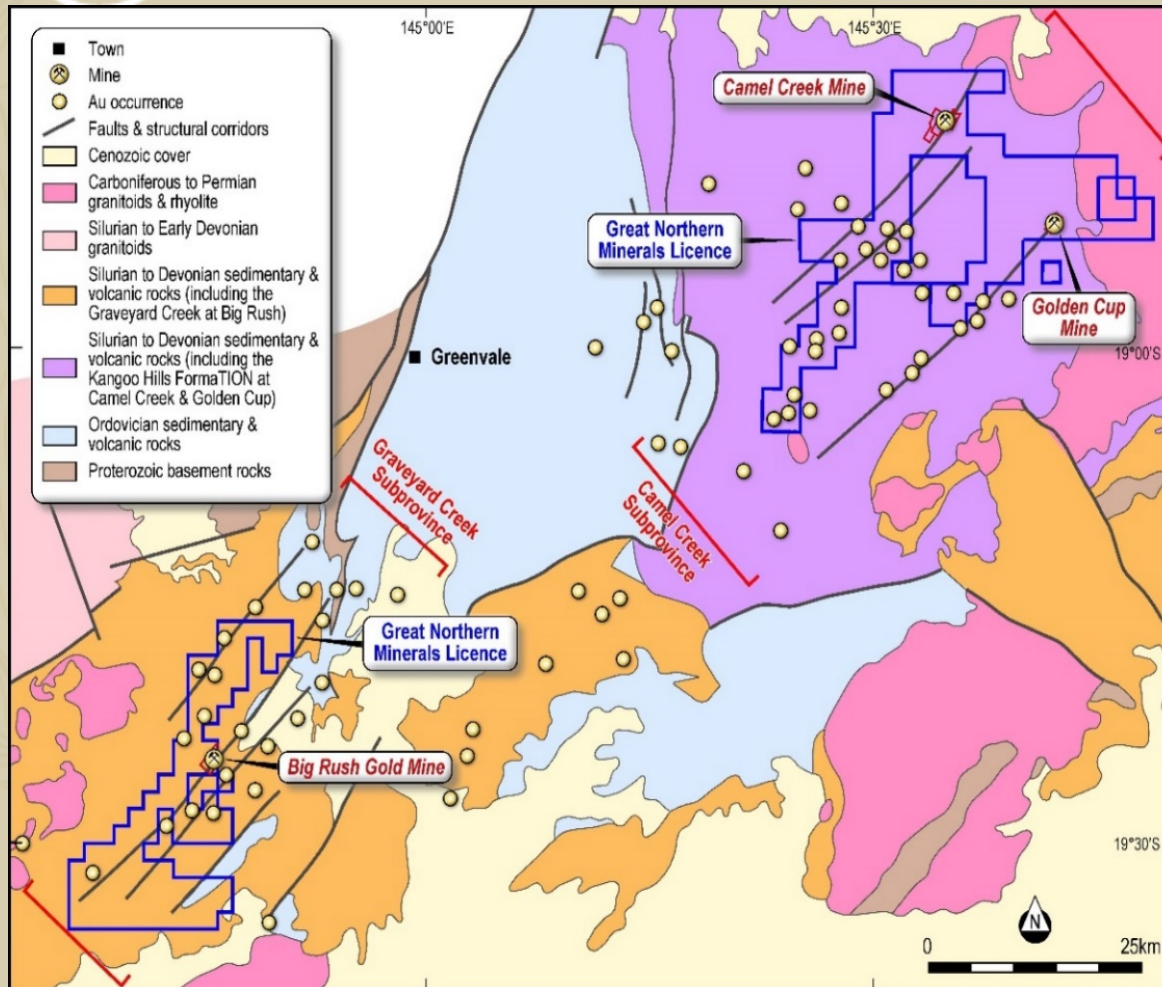
Historic recorded gold production data – Golden Ant Project.

Historic Mine	Ore Mined (tonnes)	Grade (g/t Au)	Ounces Produced
Camel Creek	1,059,696	1.68	57,238
Camel Creek Satellites	188,876	2.29	13,906
Golden Cup	201,081	2.83	18,296
Golden Cup Satellites	94,548	1.92	5,836
Big Rush Heap Leach	950,000	1.9	58,039
Big Rush CIL	33,000	11	10,000
TOTAL	2,494,201	1.91	163,315

Nb. The locations of the satellite deposits are yet to be confirmed.

Broken River Province Geology and Orogenic-style Gold Deposits (from: I. M. A. VOS, F. P.

BIERLEIN and G. S. TEALE, 2005)

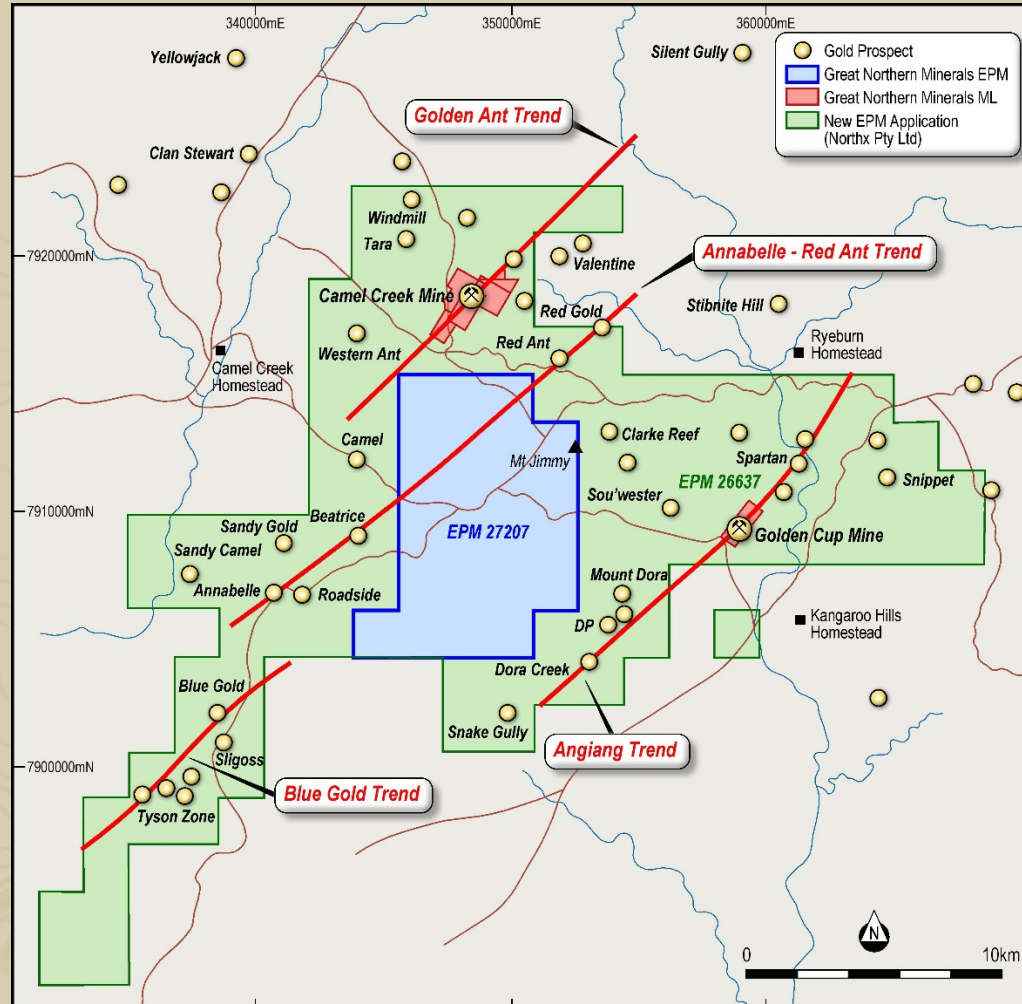


Camel Creek and Golden Cup deposits lie within the Amanda Bell Goldfield. Gold mineralisation hosted by sequence of highly deformed interbedded sandstone and variably carbonaceous siltstone and shale of Silurian-Devonian aged rocks. Gold associated with multi-phase quartz veining along NE-trending structural corridors.

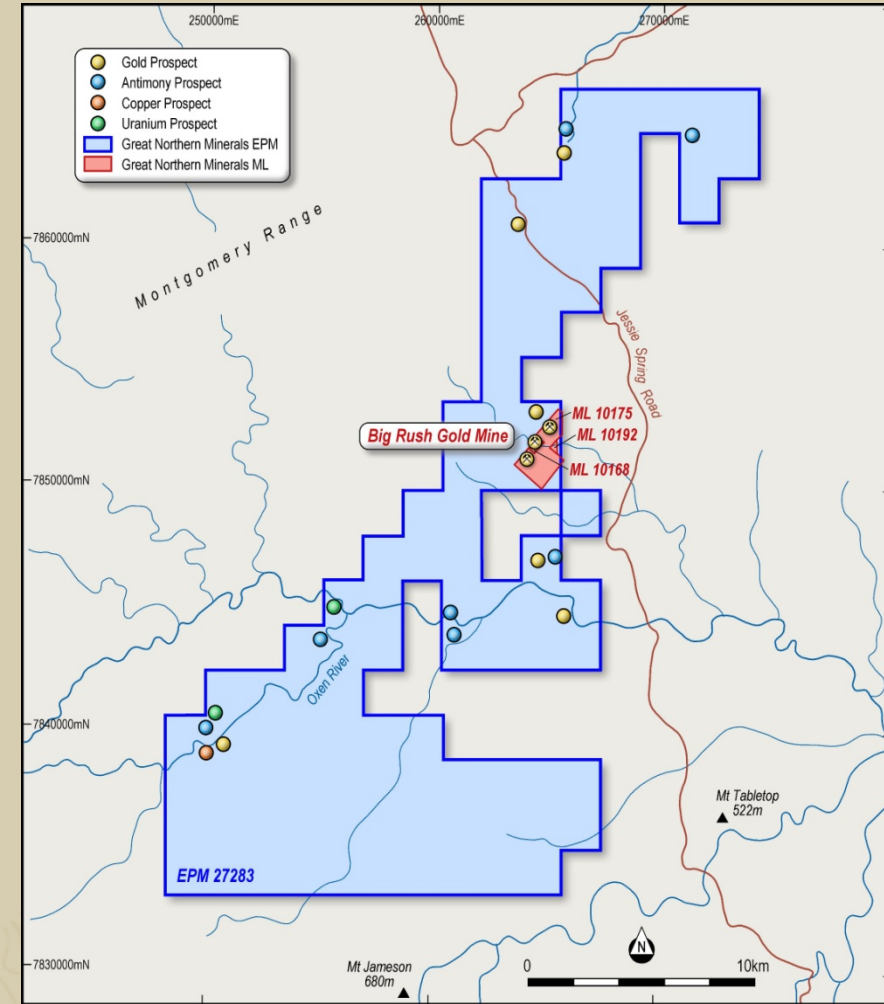
Big Rush deposit hosted by Devonian-age rocks. Host rocks comprise highly deformed interbedded sandstone, and variably carbonaceous siltstone and shale, similar to the Camel Creek and Golden Cup host rocks. Gold mineralisation is associated with multi-phase quartz veining along a discrete NE-trending brittle structure that cuts the highly deformed host sediments.

The three deposits share common associations with quartz veining, pyrite (FeS₂), arsenopyrite FeAsS) and stibnite (Sb₂S₃). Strong geological analogies with Fosterville.

TENURE POSITION



Golden Cup & Camel Creek Projects
(325 square kilometres)



Big Rush Project
(300 square kilometres)



GOLDEN CUP

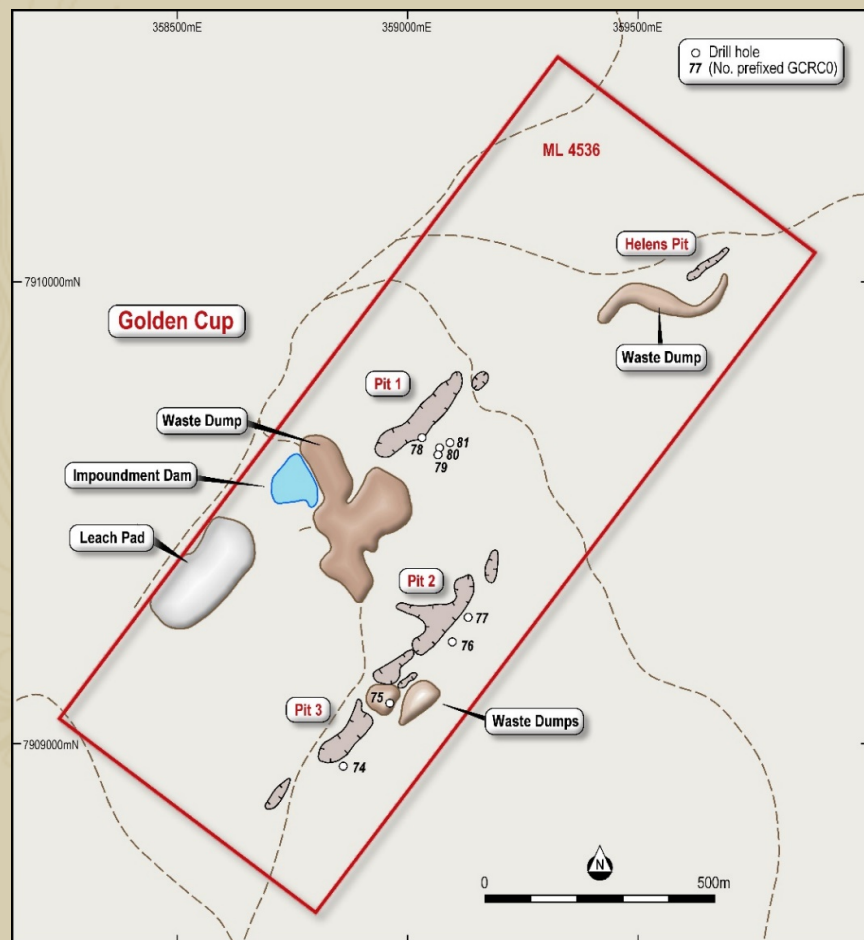
- RC Drilling in December 2019 returned high grade gold intercepts including:
 - **7m @ 7.49 g/t Au from 32m (GCRC074) &**
 - **9m @ 4.72 g/t Au from 42m (GCRC078).**
- Maiden JORC-compliant gold resource of **30,000 ounces** announced in December 2019 (256,504 tonnes @ 3.60 g/t Au).
- Historically heap leaching processed approximately 200,000t @ 2.8 g/t Au for 18,000 ounces with production finishing in 1993.
- Ore extracted from 9 pits over a 1.5km strike length with an average pit depth of less than 15m.
- 90% of drilling was less than 50m deep and mineralisation remains open at depth and along strike.



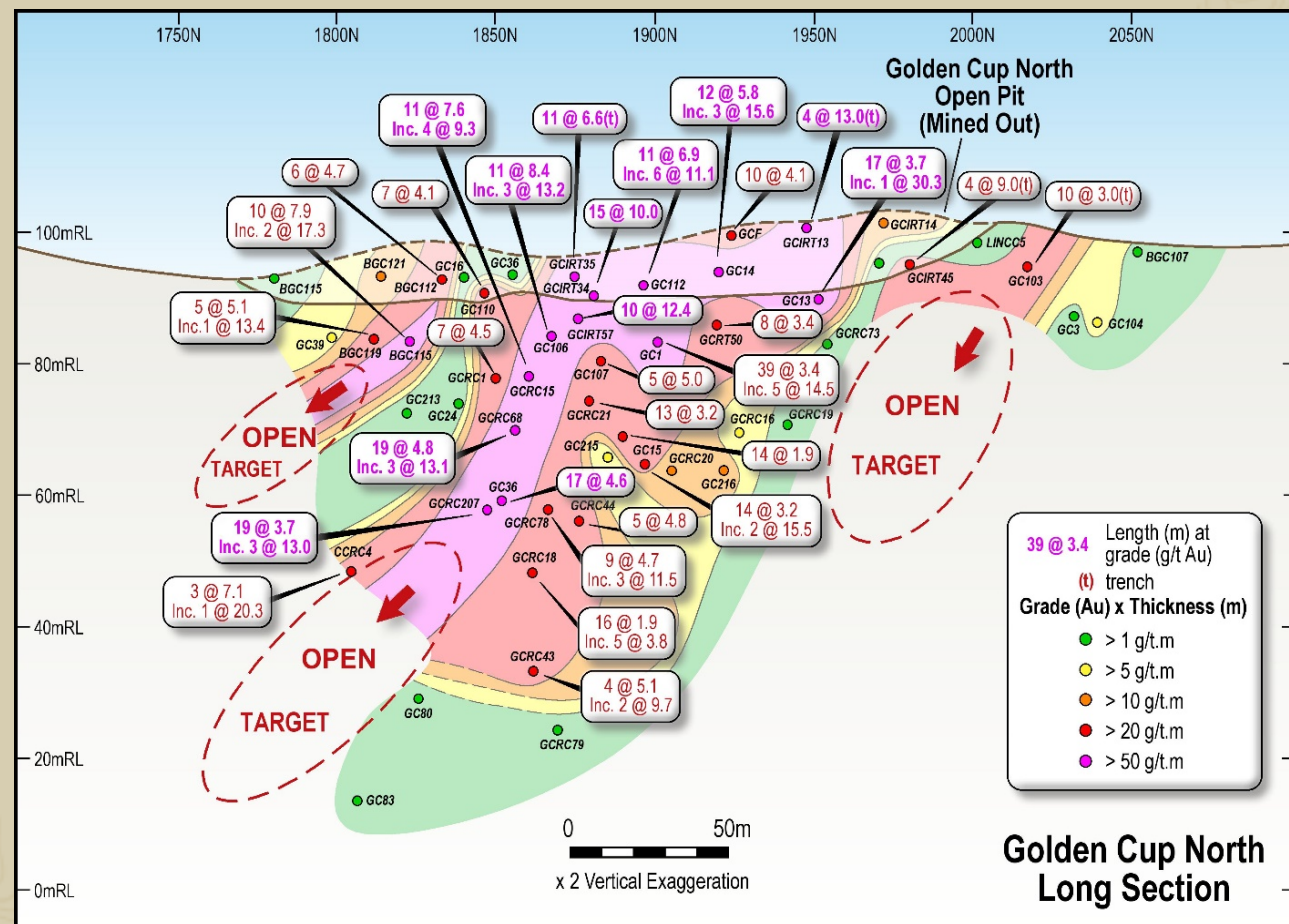
Golden Cup Open Pit



GOLDEN CUP: Site Plan and Longitudinal Section Lode 1

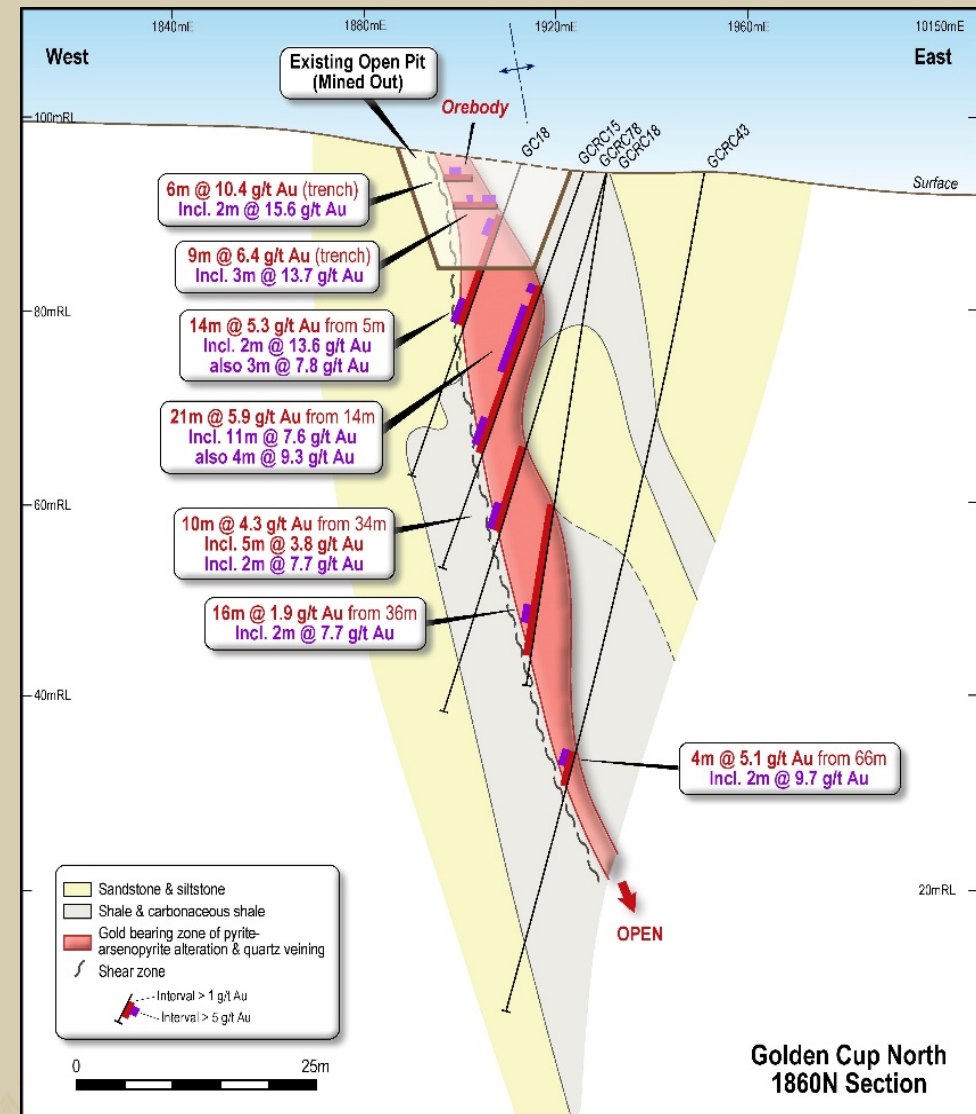
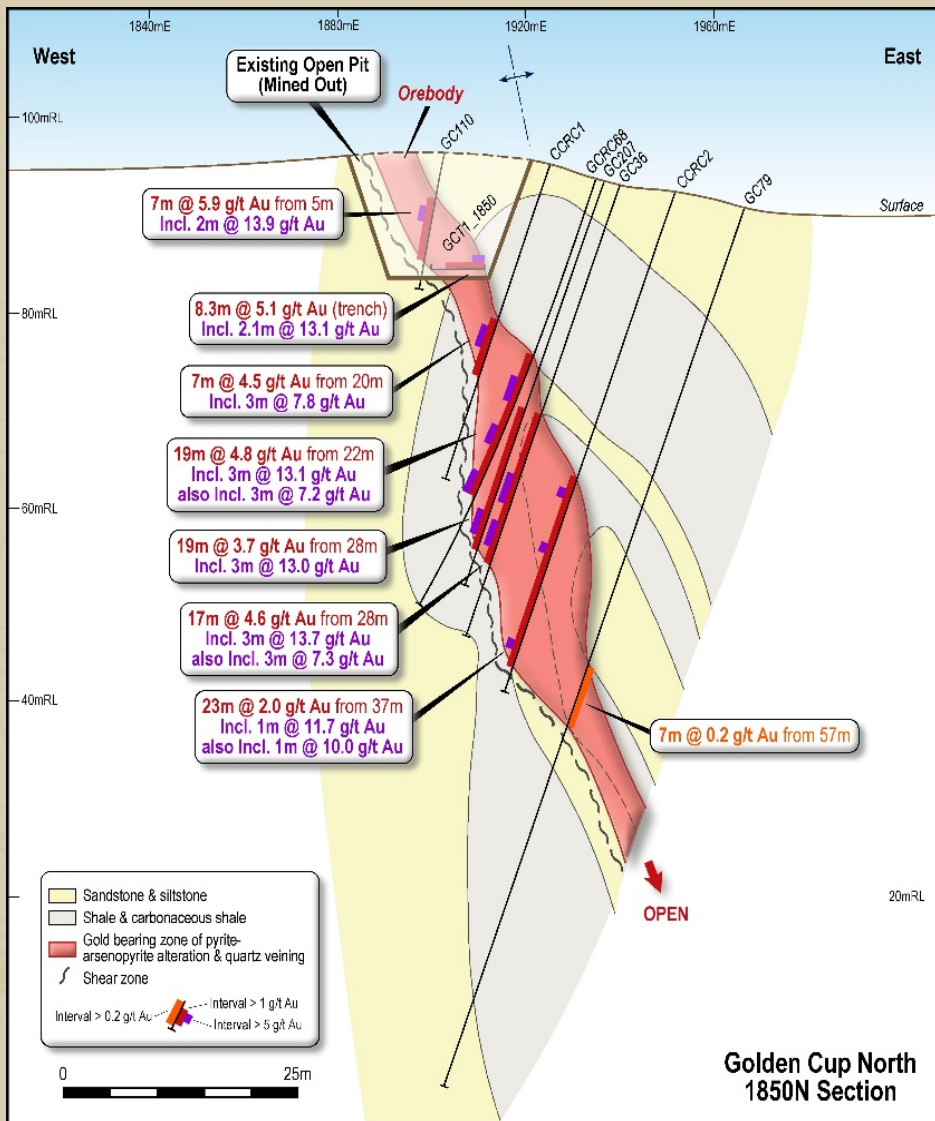


Golden Cup Plan View



Golden Cup Long Section View of Lode 1

GOLDEN CUP: Cross Sections





BIG RUSH

- RC Drilling in December 2019 returned high grade gold intercepts beneath the Central Pit including:
 - **28m @ 2.51 g/t Au from 83m (BRRC1007) &**
 - **24m @ 3.99 g/t Au from 73m (BRRC1009).**
- Maiden gold resource of 47,000 ounces announced in February 2020 (558,322 tonnes @ 2.62 g/t Au).
- The largest producer of the Company's mines and with significant infrastructure still in place.
- Historic crushed heap leach operation produced 58,000 ounces from 950,000t @ 1.9g/t Au plus 33,000 tonnes at 11 g/t Au from a small trial CIL operation.
- Mining conducted from 1995-1998.
- 4 open pits over a 2.2km strike length.
- The Northern, Southern & Sergei Pits remain to be drilled and assessed and will be part of a major exploration drilling program this year, along with planned resource expansion drilling at the Central Pit.



BIG RUSH



2019 Drilling: – looking SW towards South Pit



North Pit looking NE – steep S-plunging chevron fold in western wall



BIG RUSH



Big Rush impoundment dam & heap leach



Big Rush Open Pit

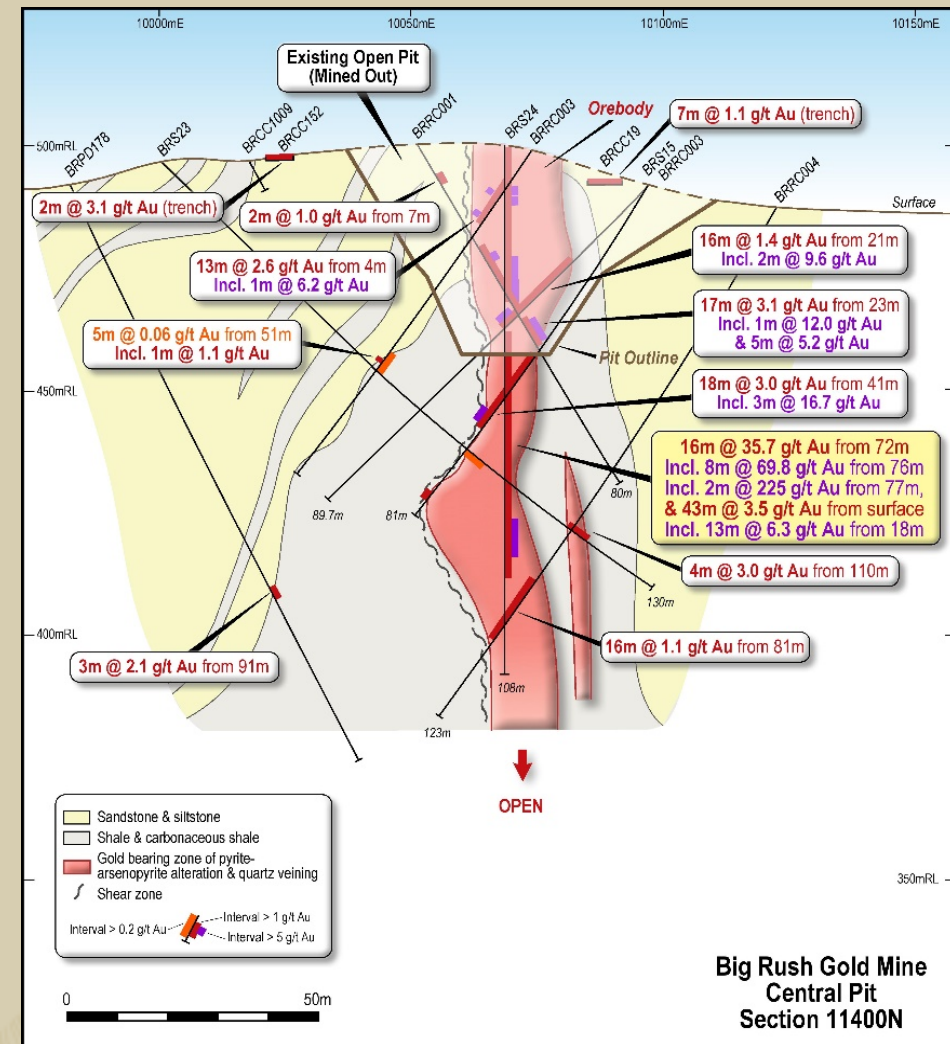
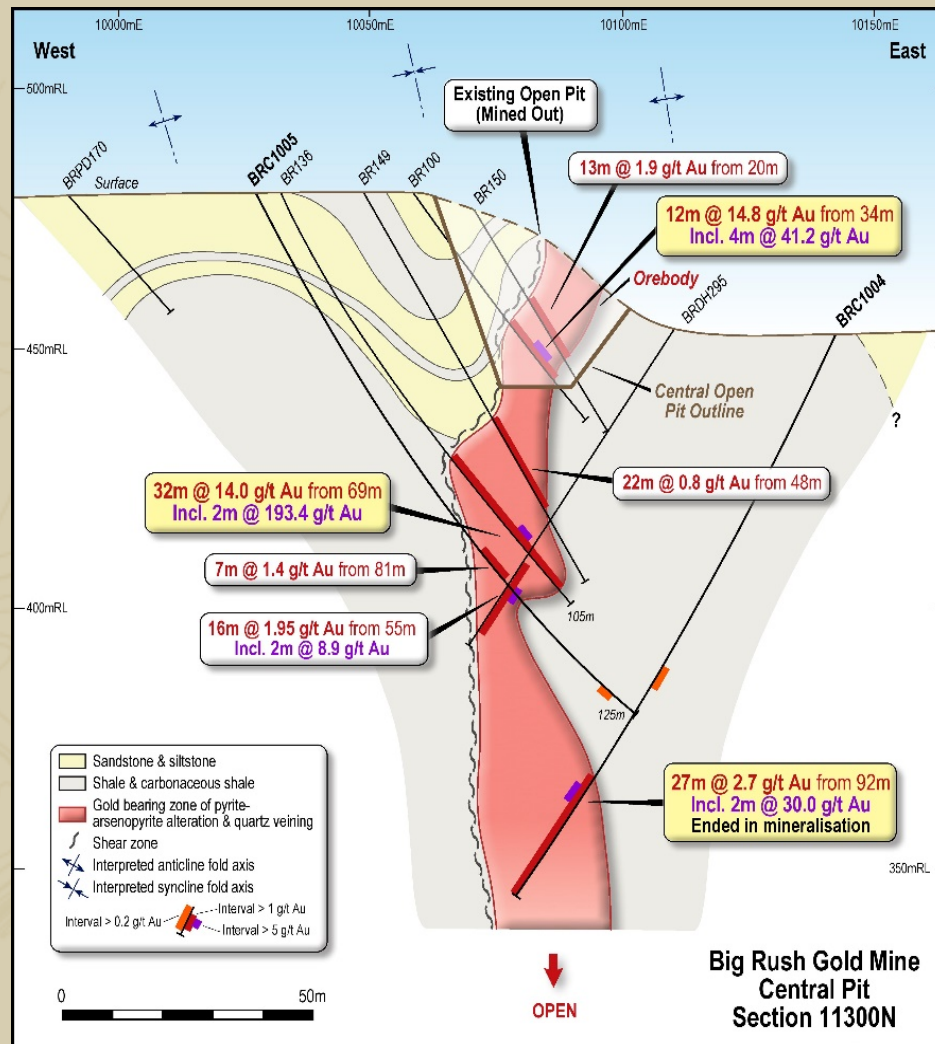
The map displays the EPM 27283 (Great Northern Minerals) area, which is outlined in red. Key features include:

- Pits:** Northern Pit, Central Pit, Southern Pit, and Sergei Pit.
- Infrastructure:** Leach Pad and Dam.
- Mineral Claims:** ML 10175 (large red outline), ML 10168 (small red outline), ML 10192 (small red outline), and ML 10290 (small red outline).
- Other Companies Ground:** Indicated to the east of the main area.

The map includes a scale bar (0 to 1000m) and a north arrow. An inset map in the top left corner shows the location of the area within a larger region, with a 10km scale bar and labels for ML 10290, ML 10175, and EPM 27283.

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BIG RUSH: Central Pit Drill Sections





CAMEL CREEK

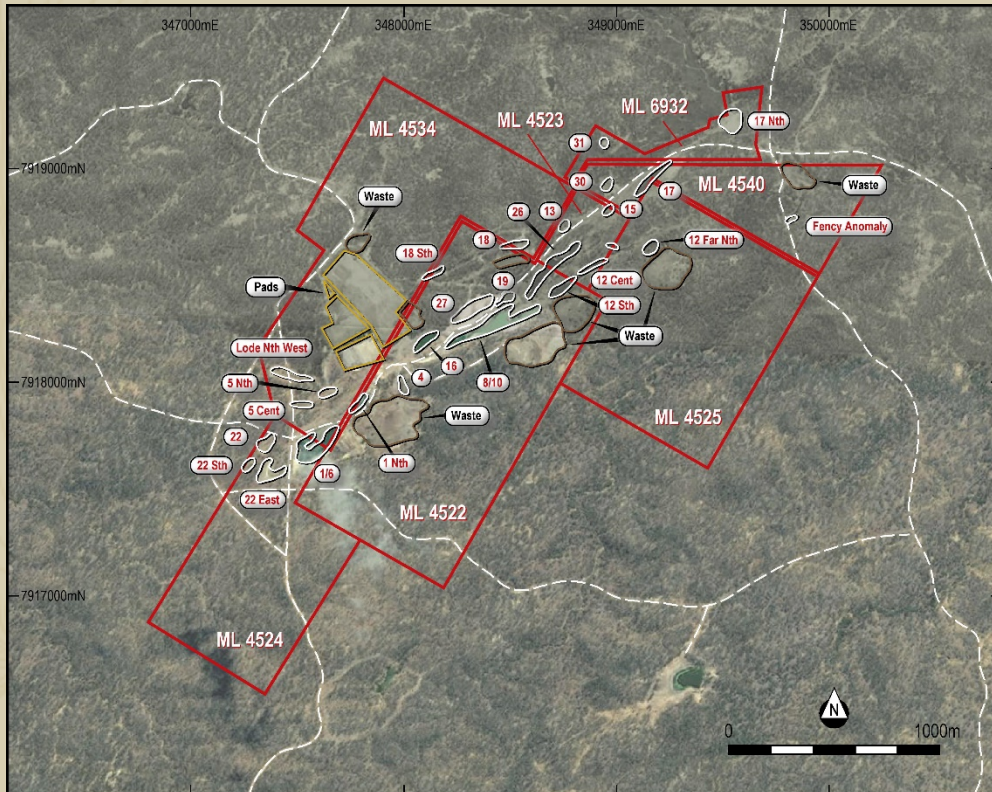
- Over 1Mt @ 1.7g/t Au processed via heap leaching to produce 57,000 ounces. Ore extracted was oxide and was not crushed prior to being placed on the heap leach pads.
- Camel Creek is the largest gold system controlled by GNM and consists of 4km of continuous workings, comprising about 30 individual pits which vary from 12 to 25m deep.
- Better intersections from floor of open pits include:
 - **12m @ 8.4 g/t Au from 0m** (Hole GA343)
 - **22m @ 2.94 g/t Au from 8m** (Hole GA336)
 - **9m @ 10.4 g/t Au from 6m** (Hole GA276)
- All previous drilling was confined to the top 50m. Mineralisation beneath the pits, distributed along 4km of NE-trending strike and up to 500m wide, remains largely untested.
- Previous exploration drilling poorly documented, not accurately surveyed and mostly mined out. A major exploration program will be required in the forthcoming programme to test this high priority target.



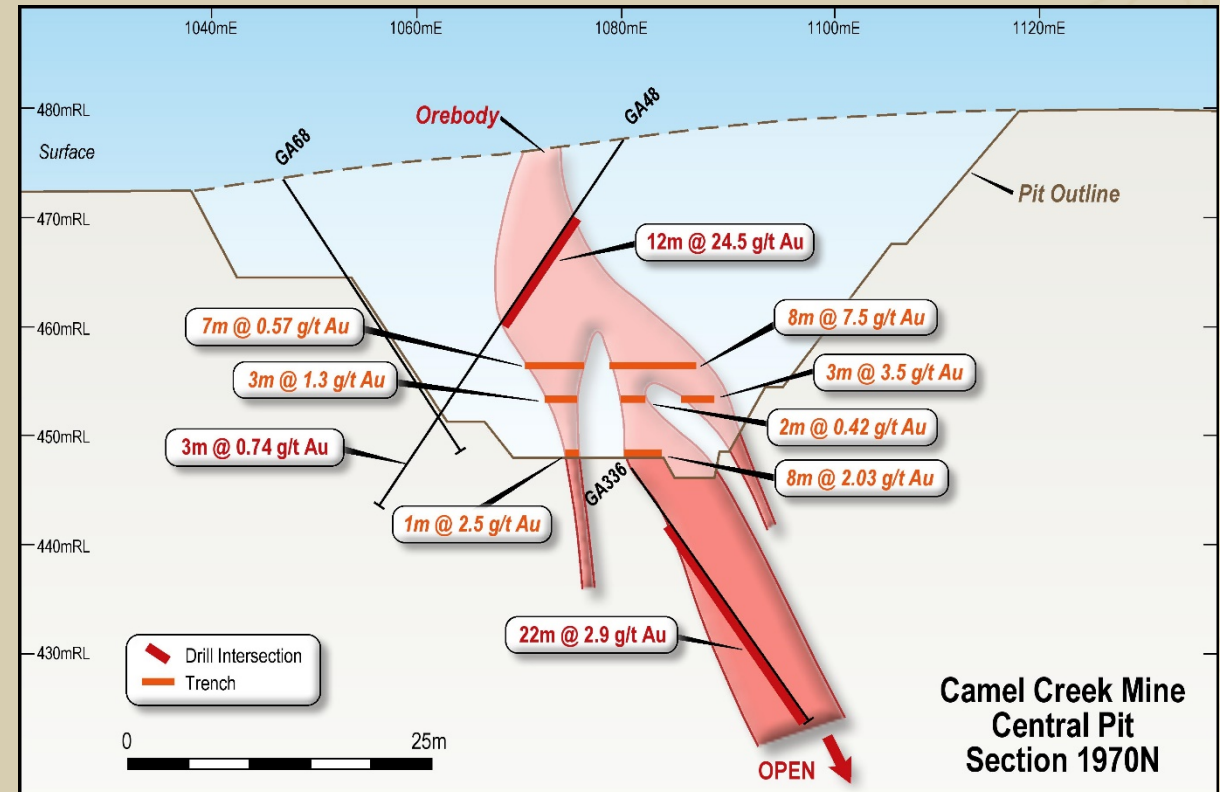
Camel Creek Open Pit



CAMEL CREEK



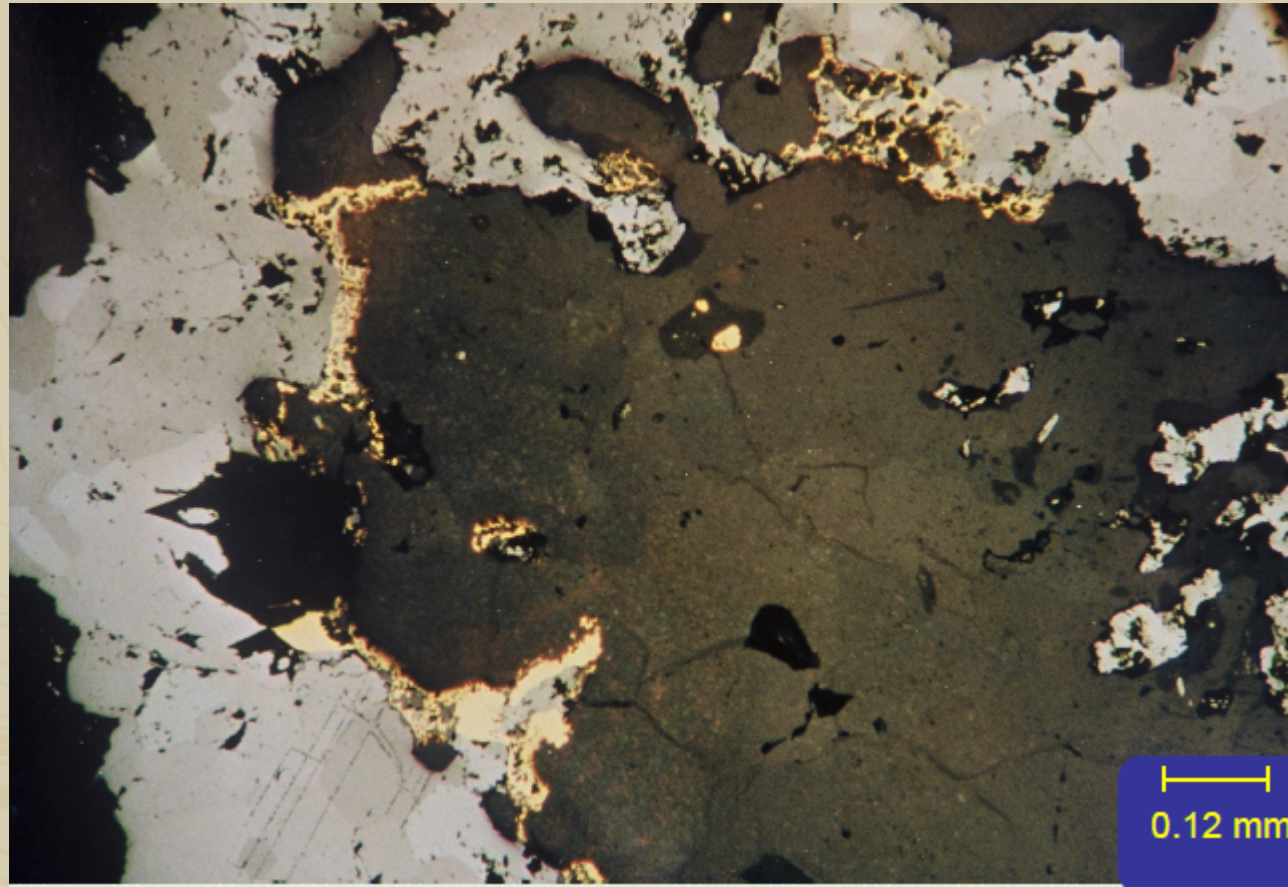
Camel Creek Plan View



Camel Creek Cross Section

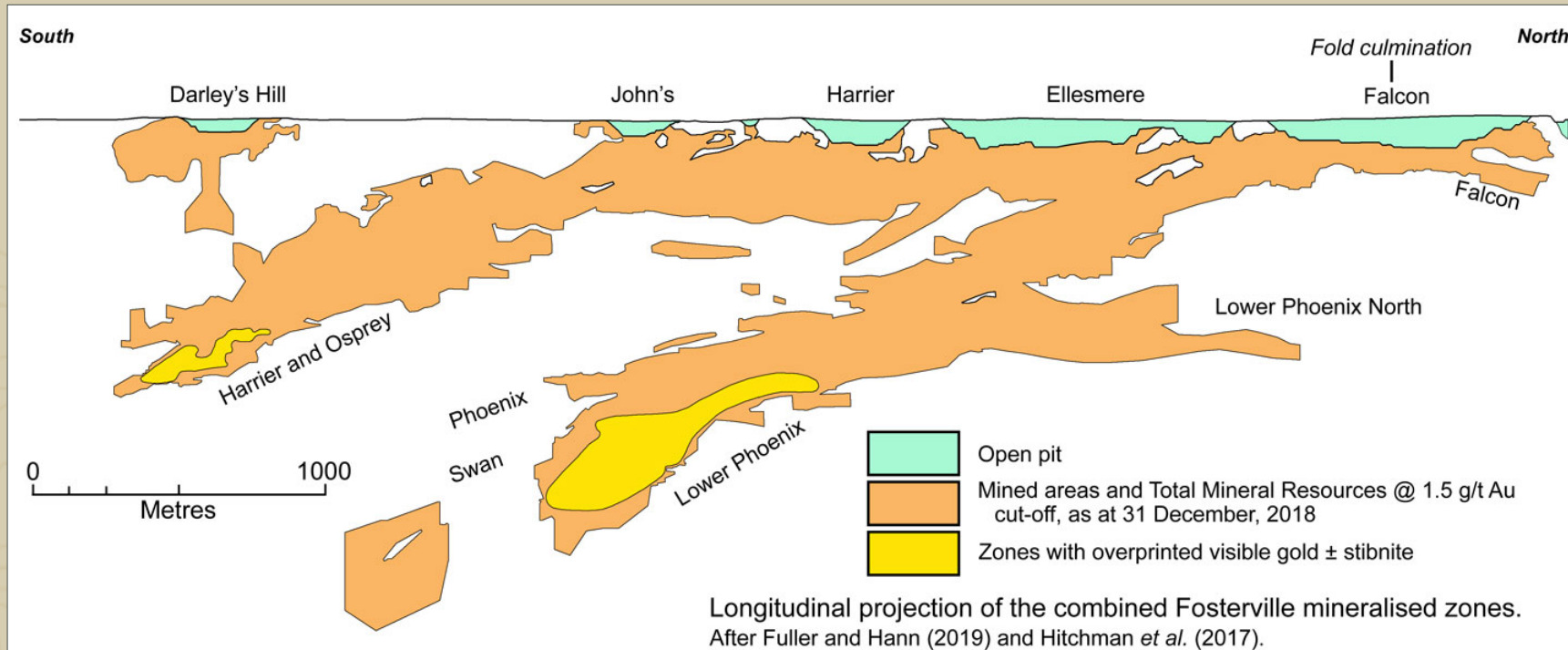


Camel Creek: Gold developing after aurostibite and enclosing quartz gangue (From: G.S. Teale¹, I.M.A. Vos², F.P. Bierlein)





Fosterville Comparison - Compelling



- Similar age host rocks and comparable periods of deformation and metamorphism
- Comparable mineralogy: Gold mineralisation at Big Rush, Golden Cup and Camel Creek is closely associated with arsenopyrite, pyrite and stibnite (antimony sulphide) sulphide mineralogy and quartz veining in places. At Fosterville, the gold at shallow levels is also closely associated with disseminated arsenopyrite-pyrite sulphide in the sedimentary host rock surrounding barren quartz-carbonate stockwork veins. Down plunge at depth a late primary visible gold event overprints the sulphide mineralisation and occurs within cross cutting quartz-carbonate veins and characteristic stibnite (Fuller and Hann, 2019)
- Deep drilling in 2015 unlocked the deep potential
- 1995 reserves and resources for Fosterville similar grade to Big Rush, Golden Cup and Camel Creek
 - 4.79Mt @ 11 g/t Au Oxide ore and 5.9Mt @ 2.7 g/t Au sulphide ore



Conclusion

2019 – Implementing the vision

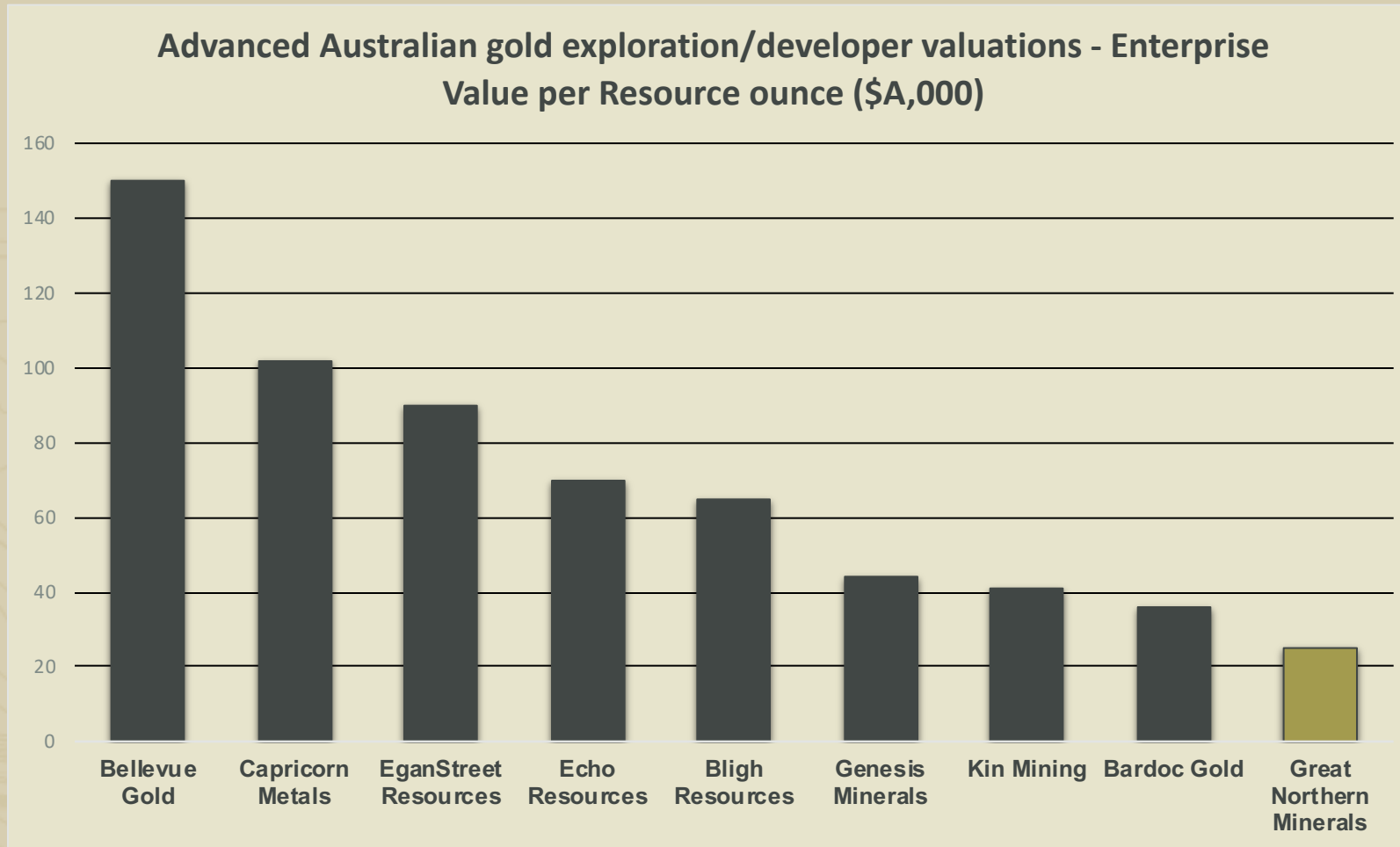
- Divested all non-core projects
- Signed Heads of Agreement for 3 previously mined gold projects
- Rebranded to Great Northern Minerals to reflect the refreshed vision of the Company
- Completed 10-1 share consolidation
- Released maiden JORC resource of 30,000 ounces at Golden Cup
- Completed drilling campaign at Golden Cup and Big Rush with encouraging results and a new zone identified at Big Rush

2020 – Executing the strategy

- Released maiden JORC resource of 47,000 ounces at Big Rush.
- Investigating potential for toll treating
- Planned further drilling at all projects
- Drilling and bulk testing heap leach material
- Continue resource growth toward 500,000 ounces
- Planned to complete detailed extension and infill drilling Golden Cup to 100-200m depth, metallurgical and mining scoping studies in preparation for economic evaluation of opportunities.



Valuations





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