ASX ANNOUNCEMENT

15 December 2020

PINNACLES FEASIBILITY STUDY UPDATE

ASX: NXM Capital Structure

Shares on Issue 244 million Options 11 million

Corporate Directory

Mr Paul Boyatzis Non-Executive Chairman

Mr Andy Tudor Managing Director

Dr Mark Elliott Non-Executive Director

Mr Bruce Maluish Non-Executive Director

Mr Phillip Macleod Company Secretary

Company GOLD Projects

Wallbrook Project

Pinnacles Project

Pinnacles JV Project (with Saracen Gold Mines)

Mt Celia Project

Nexus Minerals Limited (ASX: NXM) (Nexus or **the Company)** is pleased to announce an update into the status of the feasibility study currently being undertaken at the Pinnacles JV Gold Project, in the eastern goldfields of Western Australia.

Nexus consultants have this year been engaged to undertake a pit optimization study and mine development plan options, to assist in determining the feasibility of establishing a gold mining operation at Pinnacles. Due to the pre-existing ore sale and purchase agreement with Saracen, there is minimal capital expenditure required to initiate mining, with any ore mined to be processed through Saracen's Carosue Dam Operation.

The feasibility study will incorporate resource definition drilling, geotechnical drilling, environmental studies and metallurgical test work along with other key assessments and permitting.

The seven diamond drill holes (results outlined in Table 1) were drilled specifically for geotechnical assessment (pit and underground design) and to collect representative samples from the oxide, transition and fresh mineralised zones for metallurgical testwork.

The feasibility study is now due for completion early 2021, due to the multi-phase nature of many of the inputs required, the slow turn-around time on receiving assay results and the general high workload of consultants being used.

- Feasibility study inputs continue to be completed;
 - RC drilling results all received see ASX release 2/11/2020
 - Diamond drill program completed and results received drill core selectively sampled for metallurgical testwork
 - Metallurgical testwork underway
 - Geotechnical study completed report pending
 - > Hydro-geology study completed No issues raised
 - Environmental studies completed
 - Flora and fauna reports received with no issues raised
 - Heritage survey completed with no issues raised
 - Mining proposal preparation underway
 - > Feasibility study completion expected early 2021

Managing Director Andy Tudor said "Notwithstanding the delays mentioned above, we have made significant advancements on the feasibility study inputs, and encouragingly all have been positive to date. We are aiming for the completion of the study in early 2021".

NEXUSMINERALS



Figure 1: Pinnacles Project Location, Eastern Goldfields, WA



Figure 2: Pinnacles JV Location and Mineral Resource, Eastern Goldfields, WA

Hole ID	Easting	Northing	mRL	Depth (m)	Azimuth	Dip	From (m)	Length (m)	g/t Au
NMPDD20-009	439577	6649153	359	179.8	34.4	-51.8	140.62	4.93	3.31
						inc	144.94	0.61	19.11
NMPDD20-010	439585	6649360	362	174.9	143.6	-43.9	133.55	0.91	1.07
NMPDD20-011	439606	6649275	362	90.0	106.0	-58.7	64.15	5.34	4.46
						inc	67.46	1.09	7.49
NMPDD20-012	439645	6649265	363	30.0	107.5	-58.2	5.00	5.68	2.41
						inc	8.50	0.88	5.77
NMPDD20-013	439615	6649305	363	87.7	107.1	-59.8	64.52	3.38	1.67
NMPDD20-014	439643	6649295	365	37.8	104.4	-61.0	21.80	4.00	0.71
NMPDD20-015	439567	6649277	361	154.8	107.0	-58.7	131.00	2.00	7.36
1									

Significant intercepts greater than 0.5g/t Au and with no more than 2 metres internal waste. Greater than 5.0 g/t Au reported seperately

Table 1: Pinnacles JV Diamond Drill Holes Selected Significant Intercepts

SiteID	Depth From	Depth To	Comments
NMPDD20-009	140.62	145.55	Fresh
NMPDD20-010	133.55	134.46	Transitional
NMPDD20-011	64.15	69.49	Transitional
NMPDD20-012	5	11.68	Oxide
NMPDD20-013	64.52	66.8	Transitional
NMPDD20-014	21.8	25.8	Oxide
NMPDD20-015	131	133	Fresh

Table 2: Pinnacles JV Diamond Drill Holes Selected for Metallurgical Testwork



Figure 3: Pinnacles Mineral Resource Model (Open Cut 0.5g/t Au Cut-off / Underground Cut-off 1.0g/t Au Cut-off)



Figure 4: Pinnacles JV Drill Hole Locations

This announcement is authorised for release by Mr Andy Tudor, Managing Director, Nexus Minerals Limited.

Appendix 1

Cut Off Grade (g/t Au)		Category	Tonnage (kt)	Grade (g/t Au)	Metal (kOz)
	O/P	Indicated	140	2.6	11
0.5		Inferred	19	1.6	1
		Sub-total	159	2.4	12
	U/G	Indicated	170	5.6	30
1.0		Inferred	280	4.0	36
		Sub-total	450	4.6	66
		Combined Total	609	4.0	78

Table 3: Pinnacles JORC 2012 Combined Mineral Resource Estimate

About Nexus



Figure 5: Pinnacles JV, Pinnacles and Wallbrook Location, Eastern Goldfields, WA

Nexus Minerals is a well-funded resource company with a portfolio of gold projects in Western Australia and a well-credentialed Board, assisted by an experienced management team.

Nexus is actively exploring for gold deposits on its highly prospective tenement package in the Eastern Goldfields of Western Australia.

Nexus Minerals' tenement package at the Pinnacles Gold Project is largely underexplored and commences less than 5km to the south of, and along strike from, Saracen's multi-million-ounce Carosue Dam mining operations, and current operating Karari underground gold mine. Nexus holds a significant land package (125km²) of highly prospective geological terrane within a major regional structural corridor and is exploring for gold deposits.

The consolidation of the highly prospective Wallbrook Gold Project (250km²) by the amalgamation of existing Nexus tenements with those acquired from both Saracen Mineral Holdings and Newmont Exploration, will further advance these gold exploration efforts.

Nexus is actively investing in new exploration techniques to refine the targeting approach for their current and future tenements, including the use of spectral data.

- Ends –

Enquiries Mr Andy Tudor, Managing Director Mr Paul Boyatzis, Non-Executive Chairman

ContactPhone:08 9481 1749Websitewww.nexus-minerals.comASX CodeNXM

The information in this report that relates to Exploration Results, Mineral Resources or Ore Reserves is based on, and fairly represents, information and supporting documentation, prepared, compiled or reviewed by Mr Andy Tudor, who is a Member of the Australasian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists. Mr Tudor is the Managing Director and full-time employee of Nexus Minerals Limited. Mr Tudor has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity for which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the "Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Tudor consents to the inclusion in the report of the matters based on his information in the form and context in which it appears. The results are available to be viewed on the Company website www.nexus-minerals.com. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original announcements.

The information in the report to which this statement is attached that relates to the Pinnacles Mineral Resources based upon information compiled by Mr Mark Drabble, a Competent Person who is a member of The Australian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists. Mr Drabble is a full-time employee of Optiro Pty Ltd, consultants to Nexus Minerals Limited. Mr Drabble has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Drabble consents to the inclusion in the report of matters based on his information in the form and context in which it appears.

The information in this report that relates to the Crusader Mineral Resource Estimate is based upon information compiled by Mr Adam James, a Competent Person who is a member of The Australasian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists. At the time of the report, Mr James was a full-time employee of Nexus Minerals Limited. Mr James has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr James consents to the inclusion in the report of matters based on his information in the form and context in which it appears.

No Ore Reserves have currently been defined on the Pinnacles or Wallbrook tenements. There has been insufficient exploration and technical studies to estimate an Ore Reserve and it is uncertain if further exploration and/or technical studies will result in the estimation of an Ore Reserve. The potential for the development of a mining operation and sale of ore from the Pinnacles or Wallbrook tenements has yet to be established.

Appendix A <u>15 December 2020</u>

JORC Code, 2012 Edition – Table 1

Section 1 Sampling Techniques and Data

(Criteria in this section apply to all succeeding sections.)

Criteria	JORC Code explanation	Commentary
Sampling techniques	Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.	Diamond core is PQ, sampled at 1m intervals or geological boundaries and cut into quarter core for analysis. All samples were pulverized at the laboratory to -75um, to produce a 50g charge for gold Fire Assay with ICP finish.
	Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.	
	Aspects of the determination of mineralisation that are Material to the Public Report.	
	In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information.	
Drilling techniques	Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).	A diamond drill rig owned by Raglan Drilling was used to undertake the diamond drilling. Diamond core was oriented using Reflex Act 111 tool. 7 diamond holes were completed for 755m.
Drill sample recovery	Method of recording and assessing core and chip sample recoveries and results assessed.	Diamond core recovery percentages calculated from measured core versus drilled intervals are logged and recorded in database. Recoveries averaged >95%.
	Measures taken to maximise sample recovery and ensure representative nature of the samples.	Diamond core is reconstructed into continuous runs on an angle iron cradle for orientation marking.
	Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.	No sample bias is believed to have occurred during the sampling process.

Criteria	JORC Code explanation	Commentary
Logging	Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.	All diamond core samples were geologically logged by Nexus Minerals geologists, using the approved Nexus Minerals logging code.
	Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.	Logging of diamond core recorded: Lithology, mineralogy, alteration, mineralisation, colour, weathering and other characteristics as observed. All diamond core was photographed.
	The total length and percentage of the relevant intersections logged.	All holes and all metres were geologically logged.
Sub-sampling	If core, whether cut or sawn and whether quarter, half or all core taken.	All drill core is cut in half, and then half again to produce 1/4 core using an
and sample	If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.	automatic core saw. Samples always collected from the same side.
	For all sample types, the nature, quality and appropriateness of the sample preparation technique.	
	Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.	Sampling methods and company QAQC protocols are best industry practice.
	Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling.	
	Whether sample sizes are appropriate to the grain size of the material being sampled.	Sample sizes are considered appropriate for the material being sampled and the sample size being submitted for analysis.
Quality of assay data	The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.	Samples were analysed at the Intertek laboratory Perth.
and laboratory tests	For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.	Not used
	Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.	Nexus Minerals protocol provides for Certified Reference Material (Standards and Blanks) to be inserted at a rate of 10 standards and 10 blank per 100 samples. No field duplicates are inserted as the ¼ core is course crushed at the laboratory into 3 samples, and these are used as duplicate samples for analysis.
Verification of sampling and assaying	The verification of significant intersections by either independent or alternative company personnel.	Significant intersections were verified by the Exploration Manager.

Criteria	JORC Code explanation	Commentary
	The use of twinned holes.	No twin holes were drilled as part of this program
	Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.	All field logging is carried out on a Toughbook computer. Data is submitted electronically to the database geologist in Perth. Assay files are received electronically from the laboratory and added to the database. All data is managed by the database geologist.
	Discuss any adjustment to assay data.	No adjustment to assay data has occurred.
Location of data points	Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.	Drill hole locations were determined using a DGPS, with an accuracy of <1m. Down hole surveys were taken using a gyro survey tool taking dip/azimuth readings every 10m.
	Specification of the grid system used.	Grid projection is GDA94 Zone51.
	Quality and adequacy of topographic control.	The drill hole collar RL is allocated from a detailed DTM.
		Accuracy is +/- 1m.
Data spacing	Data spacing for reporting of Exploration Results.	Drilling took place in 1 prospect area.
and distribution	Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.	No mineral resource update is being applied to this drill program.
	Whether sample compositing has been applied.	No composite sampling.
Orientation of data in relation to geological structure	Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type. If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling	The orientation of the drill lines is considered to be perpendicular to the strike of the regional structures controlling the mineralisation (15 degrees), and also to suit geotech and metallurgical sampling requirements. 7 holes were drilled
	bias, this should be assessed and reported if material.	

Criteria	JORC Code explanation	Commentary						
		Hole ID	Easting	Northing	mRL	Depth (m)	Azimuth	Dip
		NMPDD20-009	439577	6649153	359	179.8	34.4	-51.8
								inc
		NMPDD20-010	439585	6649360	362	174.9	143.6	-43.9
		NMPDD20-011	439606	6649275	362	90.0	106.0	-58.7
								inc
		NMPDD20-012	439645	6649265	363	30.0	107.5	-58.2
								inc
		NMPDD20-013	439615	6649305	363	87.7	107.1	-59.8
		NMPDD20-014	439643	6649295	365	37.8	104.4	-61.0
		NMPDD20-015	439567	6649277	361	154.8	107.0	-58.7
		It is not conside	ered to inti	oduce a s	ampling	bias.		
Sample security	The measures taken to ensure sample security.	Pre numbered and transporter personnel.	calico bag d to the Int	s were pla ertek labo	aced into ratory in	green plas Kalgoorlie	stic bags, by comp	sealed any
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	All sampling, lo considered to b	ogging, ass be industry	saying and best prac	l data ha tice.	ndling tech	nniques a	re

Section 2 Reporting of Exploration Results

(Criteria listed in the preceding section also apply to this section.)

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.	Drilling was undertaken on tenement M28/243. Nexus is the manager of a Farm-In & JV Agreement with Saracen Mineral Holdings Limited (as detailed in ASX release 17/09/2015).
	The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.	There are no other known material issues with the tenements. The tenements are in good standing with the Western Australian Mines Department (DMP).

Criteria	JORC Code explanation	Commentary
Exploration done by other	Acknowledgment and appraisal of exploration by other parties.	The tenements were subject to minor mining activities in the early 1900's (2 shafts) and modern exploration activities since the mid 1980's.
parties		A number of companies explored the tenement between 1982 and 2014. Saracen Gold Mines Pty Ltd obtained the tenement in 2006 and has completed a number of drilling campaigns over the main Pinnacles project area. This work resulted in Saracen Gold Mines Pty Ltd releasing a JORC 2012 compliant resource of 413,000t @ 2.1g/t gold for 28,000 ounces.
Geology	Deposit type, geological setting and style of mineralisation.	The Pinnacles Project area covers part of a highly deformed Archaean greenstone sequence of basalts, dolerites, and comagmatic high-level intrusions. This mafic volcanic association is overlain by a series of medium to coarse grained volcaniclastic sandstones and subordinate felsic volcanic rocks. These greenstones have been intruded and disrupted by the forceful intrusion of a series of granitoid rocks. Gold mineralisation occurs within a sub-vertical shear zone hosted within the sediments. It is associated with quartz veining (1-10cm) and sheared altered host rocks.
Drill hole Information	A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:	Refer to ASX announcements for full tables.
	 easting and northing of the drill hole collar elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar dip and azimuth of the hole down hole length and interception depth hole length. 	
	If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.	
Data aggregation methods	In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated.	Grades are reported as down-hole length weighted averages greater than 0.5g/t Au. No top cuts have been applied to the reported assay results.
	Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for	

Criteria	JORC Code explanation	Commentary
	such aggregation should be stated and some typical examples of such aggregations should be shown in detail.	No aggregate intercepts of this type are being reported.
	The assumptions used for any reporting of metal equivalent values should be clearly stated.	No metal equivalents are being reported.
Relationship between mineralisation widths and intercept	These relationships are particularly important in the reporting of Exploration Results.	The orientation of the drill lines is considered to be perpendicular to the strike of the regional structures controlling the mineralisation (15
	If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.	degrees).
lengths	If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known').	All reported intersections are down-hole length – true width not known.
Diagrams	Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.	Refer to the maps and sections included in the text.
Balanced reporting	Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.	See Table 1 for results reported.
Other substantive exploration data	Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater,	All diamond core was logged for geotechnical purposes by geotechnical consultant including RQD, fracture counts and joint/bedding measurements. 10cm sections of representative lithologies were collected and submitted for rock shear testwork.
	geotecnnical and rock characteristics; potential deleterious or contaminating substances.	Samples for Bulk Density measurements were taken at a rate of one 20cm section per 10m of drill core. Samples were submitted to Intertek Genalysis for bulk density determination.
Further work	The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).	Post full assessment of recent diamond drilling and RC drill results and integration with existing data sets, future work programs may include
	Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.	further RC and/or diamond drilling to follow up on the results received from this drill program.