

ASX ANNOUNCEMENT

13 October 2016

NEXUS PINNACLES JV GOLD PROJECT RESOURCE INCREASED BY 193%

ASX: NXM

Capital Structure

Shares on Issue 83.1 million

Unlisted Options 1.5 million

Cash on Hand \$7.2million (1/9/16)

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 Projects

Eastern Goldfields WA Company and Farm-In JV tenements

Pinnacles JV Project (Gold)

Pinnacles Project (Gold)

Triumph Project (Gold)

Mt Celia Project (Gold)

HIGHLIGHTS

- Pinnacles East JORC 2012 Mineral Resource updated to: <u>550,000t @ 4.6g/tAu for 82,000 ounces</u>
- Resource ounces increased by 193% over previous estimate
- Resource grade increased by 120% over previous estimate
- Nexus discovery cost <\$10/resource ounce
- Project mine optimisation and development studies underway

Nexus Minerals Limited (ASX: NXM) (Nexus or **the Company)** is pleased to announce the successful completion of a mineral resource upgrade on the Pinnacles East gold resource area, within the Pinnacles JV gold project, located in the Eastern Goldfields, 120km northeast of Kalgoorlie.

The updated JORC 2012 mineral resource of 550,000t @ 4.6g/t Au for 82,000 ounces is a 193% increase above the previous Saracen Mineral Holdings (Saracen) JORC 2012 mineral resource of 413,000t @ 2.1t/t Au for 28,000 ounces.

The additional drilling undertaken by Nexus over the last 12 months has allowed the previous resource model to be extended to a depth of 350m, approximately 220m deeper than the previous estimate, resulting in the tonnage increasing to 550,000t, up from 413,000t. The additional drill hole data has also allowed for a more selective interpretation of the geological controls on the mineralisation, resulting in the increase of the mineral resource grade to 4.6g/t Au, up from 2.1g/t Au.

Managing Director Andy Tudor said "I am very pleased with the significant increase to the mineral resource in terms of both tonnes and particularly grade. These results further enhance the strength of the Pinnacle's project and its ability to produce a robust and viable gold mining operation. Due to the pre-existing ore sales agreement with Saracen, there is very low capital expenditure required to initiate mining, with any ore mined to be processed through Saracen's Carosue Dam Operation".

Further resource delineation drilling, geotechnical, metallurgical, hydrogeological test work and environmental base-line studies, will take place in the December 2016 quarter to assist in determining mine development options - by way of a combination of potential "starter" open cut mining operation / underground operation.

Nexus Minerals Limited (ASX: NXM)

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Table 1. Nexus Minerals JORC 2012 Mineral Resource Estimate

		Measured			Indicated			Inferred	•		Total		
	Tonnes	Grade	Ounce	Tonnes	Grade	Ounce	Tonnes	Grade	Ounce	Tonnes	Grade	Ounce	Cut Off
	(t)	(g/t Au)	(oz)	(t)	(g/t Au)	(oz)	(t)	(g/t Au)	(oz)	(t)	(g/t Au)	(oz)	Grade g/tAu
Pinnacles Oxide	-	-	-	75,900	3.5	9,000				75,900	3.5	9,000	0.7
Pinnacles Tran/Fresh	-	-	-	184,300	5.6	31,000	290,700	4.7	42,000	474,900	5.1	74,000	2
Pinnacles Total	-	-	-	-	-	-	-	-	-	<u>551,200</u>	<u>4.6</u>	<u>82,000</u>	

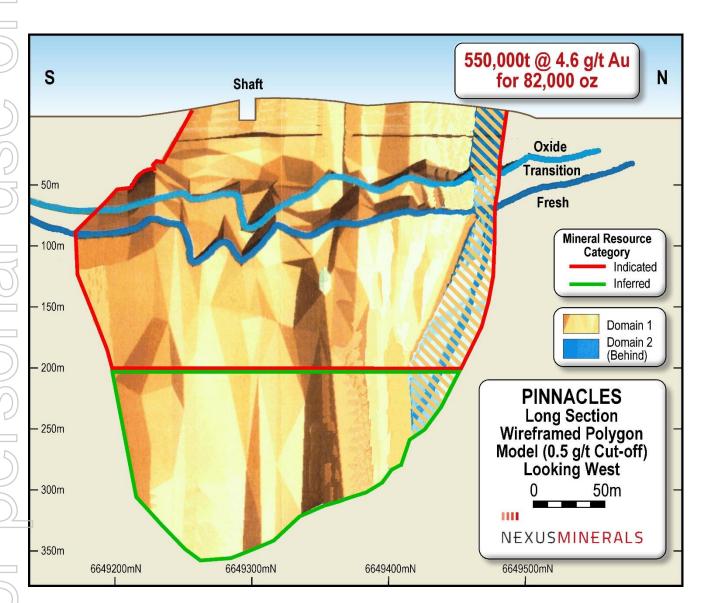


Figure 1. Pinnacles East Mineral Resource Wire Framed Polygon Model (0.5g/tAu Cut-off)

Previous JORC-2012 compliant Indicated and Inferred Mineral Resource, completed by Saracen Mineral Holdings Limited, of 413,000t @ 2.1g/t Au for 28,000oz gold (see Saracen Mineral Holdings Limited's ASX release 9 October 2014 '2014 Mineral Resources and Ore Reserves' and '2014 Mineral Resource and Ore Reserve Statement Explanatory Notes and Table').

No Ore Reserves have currently been defined on the Pinnacles JV Gold Project. 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 JV Gold Project has yet to be established.



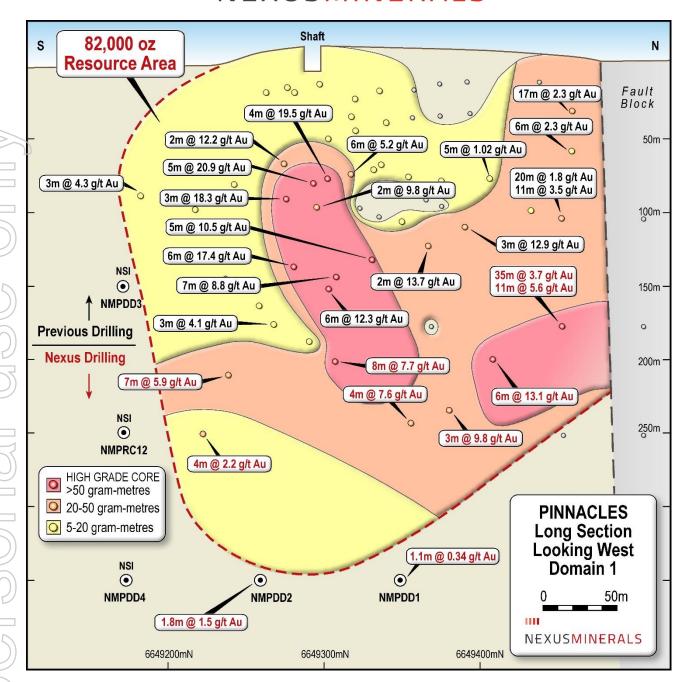


Figure 2. Pinnacles East Resource Area Long Section - Domain 1

The **Pinnacles East** gold resource extension program has successfully tested for depth and strike extensions to the high grade gold mineralisation identified by previous operators. The work undertaken by Nexus in the last 12 months was a combination of RC drilling, and RC drill pre-collars with diamond core tails.

The deeper holes under the previous Pinnacles East Mineral resource (which commences at surface) were targeted to intercept mineralisation at approximately 250m and 350m vertical depth, below previous mineralised intercepts, which included 5m @ 20.9g/t Au, 4m @ 19.5g/t Au, 6m @ 17.4g/t Au and 6m @ 12.3g/t Au.

The drill programs intersected the primary structure hosting the mineralisation (Domain 1) at the depths interpreted, with the geological package of volcaniclastic sandstones, shales and conglomerates also intersected. The Pinnacles gold mineralisation is typically associated with an increase in quartz veining, chlorite alteration and increase in sulphide content.



A secondary "cigar" shaped body of mineralisation (Domain 2 Fig 3a) has also been modelled at the northern end of the main Domain 1 structure, with further drilling required to determine the geometry of the mineralised body. Only a limited number of holes have penetrated this structure with intersections to date including:

- 35m @ 3.7g/t Au
- 17m @ 2.3g/t Au
- 20m @ 1.8g/t Au
- 6m @ 2.3g/t Au and,
- 8m @ 1.5g/t Au.

In under twelve months since entering into the JV with Saracen Mineral Holdings Limited in late 2015, Nexus has drill tested the depth and continuity of the potential high grade mineralisation through a number of depth staged drill programs. The drill programs undertaken by Nexus this year achieved this objective by intersecting mineralisation from below the known resource (130m) at 250m and 350m vertical depth, as well as testing the strike extent of the resource.

These Nexus drill programs have resulted in this positive mineral resource upgrade.

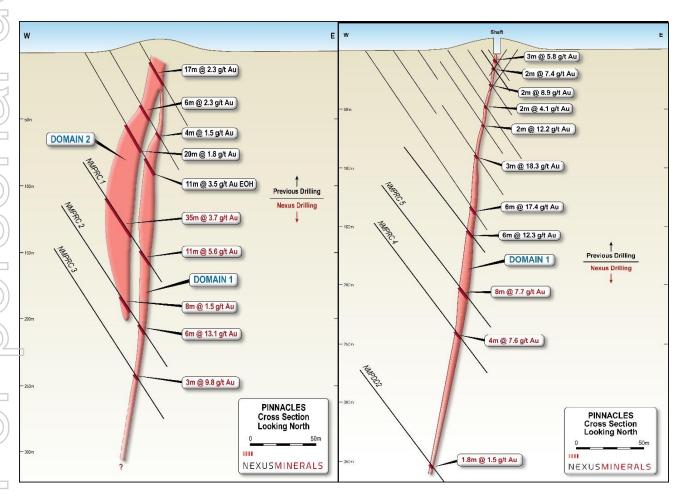


Fig 3a Cross Section through Northern End of Resource

Fig 3b Cross Section through Centre of Resource



Pinnacles East Mining Studies Advancing

Nexus is determining the feasibility of the open cut potential of the Pinnacles East gold resource area, with deeper mineralisation to be considered as a potential underground operation. Nexus consultants have been engaged to undertake a pit optimization study, and mine development plan options to assist in determining the financial viability of establishing a gold mining operation at Pinnacles East. Due to the pre-existing ore sales agreement with Saracen, there is little to no capital expenditure required to initiate mining, with any ore mined to be processed through Saracen's Carosue Dam Operation

Further resource delineation drilling, geotechnical, metallurgical, hydro-geological test work and environmental base-line studies, will take place in the December 2016 quarter to assist in determining the mine development options.

Notes to accompany Mineral Resource Statement

Pinnacles East Gold mineralisation occurs within a sub-vertical shear zone hosted within volcaniclastic sediments, predominantly shales and sandstones. It is associated with quartz veining (2-5%), sulphides (2-5%) and sheared chlorite / carbonate / haematite altered host rocks.

The Pinnacles East resource model has been updated after the completion of a 17 hole drilling program by Nexus comprising 13 reverse circulation and 4 diamond core holes. These additional holes have allowed the narrow, steeply dipping deposit to be modelled to much greater depths than in the previous model. (Previous JORC-2012 compliant Indicated and Inferred Mineral Resource, completed by Saracen Mineral Holdings Limited, of 413,000t @ 2.1g/t Au for 28,000oz gold (see Saracen Mineral Holdings Limited's ASX release 9 October 2014 '2014 Mineral Resources and Ore Reserves' and '2014 Mineral Resource and Ore Reserve Statement Explanatory Notes and Table').

The Nexus mineralisation interpretation is based on a combination of geological and grade features. The interpretation is more selective than in the previous estimate and this modification, together with other changes, has contributed to the prediction of lower tonnage at higher grade than was previously reported.

Bulk density is applied on the basis of Oxide / Transition / Fresh.

Grade modelling is based on ordinary kriging of top-cut drillhole sample gold grades into 5 mE by 10 mN by 5 mRL blocks that apply sub-cells down to 1 mE by 1 mN by 1 mRL to represent the interpreted boundaries of the mineralisation.

Based on the quality of the supporting data, the confidence in the deposit interpretation and geological continuity and the demonstrated grade continuity, combined with the current drillhole sample spacing, the deposit model has been divided into Indicated and Inferred category Mineral Resources.

Much of the upper portion of the Pinnacles East deposit (surface – 200m depth) has been assigned to an indicated category, with the remaining resource (below 200m depth) within the limits determined via eventual economic extraction analysis, assigned to an Inferred category. Material outside the eventual economic extraction limits has not been classified or reported.

Reporting of the Mineral Resource has been divided into two parts, depending on geological confidence and sample density, and whether it has the potential to be extracted by open pit or by underground mining methods. A gold cut-off grade of 0.7 g/t has been applied for reporting of the potential open pit portion of the resource, while a cut-off grade of 2.0 g/t has been used to report that portion which presents an underground mining opportunity.

Tonnages, grades and contained metal have been rounded to reflect the accuracy of the calculations. Rounding errors will occur.

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NEXUSMINERALS

About Nexus

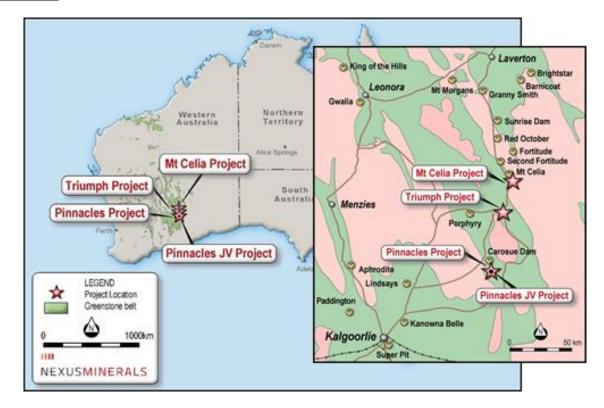


Figure 4. Nexus Project Locations - Eastern Goldfields, Western Australia

Nexus has entered into a Farm-in and Joint Venture Agreement over the Pinnacles JV Gold Project with Saracen Gold Mines Pty Ltd, a subsidiary of Saracen Mineral Holdings Limited (ASX:SAR) (see ASX Release 17 September 2015). This investment is consistent with the Company strategy of investing in advanced gold exploration assets.

Nexus Minerals is a well-funded resource company with a portfolio of gold projects in Western Australia. With a well-credentialed Board, assisted by an experienced management team, the Company is well placed to capitalise on opportunities as they emerge in the resource sector.

- Ends -

Enquiries Mr Andy Tudor, Managing Director

Mr Paul Boyatzis, Non-Executive Chairman

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ASX Code NXM

For Media and Broker Enquiries:

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Competent Persons' Statements

The information in the report to which this statement is attached that relates to Mineral Resources based upon information compiled by Mr Paul Blackney, a Competent Person who is a member of The Australian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists. Mr Blackney is a full-time employee of Optiro Pty Ltd, consultants to Nexus Minerals Limited. Mr Blackney 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 Blackney 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 Exploration Results is based on information compiled or reviewed by Andy Tudor, who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Tudor is a 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 "Australia Code for Reporting and Exploration Results, Mineral Resources and Ore Reserves". The exploration results are available to viewed on the Company website www.nexus-minerals.com. The Company confirms it is not aware of any new information that materially affects the information included in the original announcements, and in the case of Mineral resources, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed. 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. 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.

No Ore Reserves have currently been defined on the Pinnacles JV Gold Project. 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 JV Gold Project has yet to be established.



Section 1 - Sampling Techniques and Data

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,	The sampling was carried out using Diamond Drilling (DDH) (4 holes) and Reverse Circulation Drilling (RC) (13 holes), drilled over three programs.
	such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling. 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.	RC chips and diamond core provide high quality representative samples for analysis. Sampling was carried out in accordance with Nexus Minerals protocols and QAQC procedures which are considered to be industry best practice. RC holes were drilled with a 5.5inch face sampling bit, with 1m samples collected through a cyclone and cone splitter producing a 2-3kg sample. For 9 RC holes all samples had 4 consecutive 1m samples composited to form a 4m composite sample which was sent to the laboratory for analysis. Samples logged as mineralised were also sent in 1m samples to the laboratory for analysis. For 4 RC holes all 1m samples were sent to the laboratory for analysis. All samples were pulverized at the laboratory to -75um, to produce a 50g charge for gold Fire Assay with ICP finish. Diamond core is NQ, sampled at 1m intervals or geological boundaries and cut into half core for analysis. All samples were pulverized at the laboratory to -75um, to produce a
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).	50g charge for gold Fire Assay with ICP finish. An RC drilling rig, owned by Raglan Drilling, was used to undertake the drilling and collect the samples. The face sampling bit had a diameter of 5.5 inches (140mm). 17 holes were completed. 13 were all RC and 4 were RC pre-collars with diamond tail drill holes. Total RC 4983.6m and total Diamond tails 420.5m. A Diamond Drill rig owned by Raglan Drilling, was used to undertake the Diamond drilling. Diamond tails were oriented using Reflex Act 111 tool.
Drill sam	Method of recording and assessing core and chip sample recoveries and results assessed. Measures taken to maximise sample recovery and ensure representative nature of the samples. Whether a relationship exists between sample recovery and grade and whether sample	All samples were dry with no significant ground water encountered. RC face sampling bits and dust suppression were used to minimise sample loss. Average meter sample weight recovered was 25kg with minimal variation between samples. Diamond core recovery percentages calculated from measured core versus drilled



Criteria	JORC Code explanation	Commentary
	bias may have occurred due to preferential loss/gain of fine/coarse material.	intervals are logged and recorded in database. Recoveries averaged >95%.
		Diamond core is reconstructed into continuous runs on an angle iron cradle for orientation marking.
		No sample bias is believed to have occurred during the sampling process.
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. Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc)	All RC chip and diamond core samples were geologically logged by Nexus Minerals Geologists, using the approved Nexus Minerals logging code. Logging of RC chips and diamond core recorded: Lithology, mineralogy, alteration, mineralisation, colour, weathering and other characteristics as observed. All RC samples
	photography.	were wet sieved. All diamond core was photographed. All holes and all meters were geologically logged.
adi	The total length and percentage of the relevant intersections logged.	
Sub-sampling techniques and	If core, whether cut or sawn and whether quarter, half or all core taken.	All drill core is cut in half using an automatic core saw. Samples always collected from the same side.
sample preparation	If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.	One meter drill samples pass through a rotary cone splitter, installed directly beneath a rig mounted cyclone, and a 2-3kg sample collected in a numbered calico bag. The balance of the 1m sample ~25kg is collected in a green plastic bag. The green bags are placed in rows of 20 and the corresponding calico bag placed on top of the green bag.
		For composite samples four consecutive green bags were sampled using an aluminium scoop which penetrates the entire bag with multiple slices taken from multiple angles to ensure a representative sample is collected. These are combined to produce a 4m composite sample of 2-3kg.
		All samples submitted for analysis were dry.
		Samples were prepared at the Intertek Laboratory in Kalgoorlie. Samples were dried, and the whole sample pulverized to 85% passing 75um, with a sub-sample of ~200g



Criteria	JORC Code explanation	Commentary
	For all sample types, the nature, quality and appropriateness of the sample preparation technique.	retained. A nominal 50g was used for analysis. This is best industry practice.
		A duplicate field sample is taken from the cone splitter at 1:25 samples.
	Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.	
1 5		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.	Sample sizes are considered appropriate for the material being sampled and the sample size being submitted for analysis.
	Whether sample sizes are appropriate to the grain size of the material being sampled.	
Quality of assay	The nature, quality and appropriateness of the assaying and laboratory procedures used	Samples were analysed at the Intertek laboratory Perth.
data and laboratory tests	and whether the technique is considered partial or total.	4m composite samples and diamond drill core was analysed for gold only using Fire Assay technique with ICP finish. This method is considered appropriate for the material being assayed. The method provides a near total digestion of the material.
<u>(1)</u>		1m samples are analysed for gold using Fire Assay technique with ICP finish. This method is considered appropriate for the material being assayed. The method provides a near total digestion of the material.
	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.	No geophysical tools, spectrometers, handheld XRF, or any other instrument was used in drilling.
	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 between 2 and 4 standards and between 1 and 4 blanks per 100 samples. Field duplicates are inserted at a rate of 1 per 25 samples. Industry acceptable levels of accuracy and precision have been returned.



	Criteria	JORC Code explanation	Commentary
	Verification of sampling ar		Significant intersections were verified by the Exploration Manager.
	assaying	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
2/		Discuss any adjustment to assay data.	geologist.
	? ?		No adjustment to assay data has occurred.
	Location of dat 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. Specification of the grid system used.	Drill hole locations were determined using a handheld GPS, with an accuracy of 5m. Down hole surveys were taken using an electronic single shot camera to take dip/azimuth readings every 50-60m.
SI))	Quality and adequacy of topographic control.	Grid projection is GDA94 Zone51.
		Quanty and adequacy of topographic control.	The drill hole collar RL is allocated from a detailed DTM.
			Accuracy is +/- 2m.
U	Data spacir and distribution		Drilling took place in 1 prospect area. Line spacing was 25-75m.
		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.	The data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource estimation procedure and classifications applied.
		Whether sample compositing has been applied.	Yes, as stated above.
	Orientation data in relatio	, , , , , , , , , , , , , , , , , , , ,	The orientation of the drill lines is considered to be perpendicular to the strike of the regional structures controlling the mineralisation (195 degrees). 15 holes were drilled -



	Criteria	JORC Code explanation	Commentary
	to geological		60 degrees towards 105 degrees, and 2 holes were drilled -60 degrees towards 122
	structure	If the relationship between the drilling orientation and the orientation of key mineralised	degrees.
	_ n	structures is considered to have introduced a sampling bias, this should be assessed and	
		reported if material.	No bias has been introduced by drilling orientation, or the orientation of key mineralised structures.
	Sample security	The measures taken to ensure sample security.	Pre numbered calico bags were placed into green plastic bags, sealed and transported to the Intertek laboratory in Kalgoorlie by company personnel.
1	Audits or	The results of any audits or reviews of sampling techniques and data.	All sampling, logging, assaying and data handling techniques are considered to be
\bigcup	reviews		industry best practice.



Section 2 - Reporting of Exploration Results

Criteria	JORC Code explanation	Commentary
Mineral	Type, reference name/number, location and ownership including agreements or material	Drilling was undertaken on tenement M28/243.
tenement and land tenure status	issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.	Nexus is the manager of a Farm-In & JV Agreement with Saracen Mineral Holdings Limited (as detailed in ASX release 17/09/2015).
5	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.
3		The tenements are in good standing with the Western Australian Mines Department (DMP).
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.



Criteria	JORC Code explanation	Commentary
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: o easting and northing of the drill hole collar o elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar o dip and azimuth of the hole o 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	See ASX releases 21/1/2016, 6/5/2016, 9/9/2016.
Data aggregation methods	Competent Person should clearly explain why this is the case. 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.	See ASX releases 21/1/2016, 6/5/2016, 9/9/2016.
	Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.	
	The assumptions used for any reporting of metal equivalent values should be clearly stated.	
Relationship between mineralisation widths and	These relationships are particularly important in the reporting of Exploration Results. If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.	The orientation of the drill lines is considered to be perpendicular to the strike of the regional structures controlling the mineralisation (195 degrees). All holes were drilled -60 degrees towards 105 degrees.
intercept 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	See ASX releases 21/1/2016, 6/5/2016, 9/9/2016.



	Criteria	JORC Code explanation	Commentary
		limited to a plan view of drill hole collar locations and appropriate sectional views.	
	Balanced	Where comprehensive reporting of all Exploration Results is not practicable,	Exploration results have been reported in a representative fashion (see ASX releases
7	reporting	representative reporting of both low and high grades and/or widths should be practiced	21/1/2016, 6/5/2016, 9/9/2016).
		to avoid misleading reporting of Exploration Results.	
	Other	Other exploration data, if meaningful and material, should be reported including (but	No other exploration data is material.
	substantive	not limited to): geological observations; geophysical survey results; geochemical survey	
U	exploration data	results; bulk samples – size and method of treatment; metallurgical test results; bulk	
7/	<u> </u>	density, groundwater, geotechnical and rock characteristics; potential deleterious or	
	7	contaminating substances.	
	9		Post full assessment of recent RC drill results and integration with existing data sets, future
	Further work	The nature and scale of planned further work (eg tests for lateral extensions or depth	work programs may include further RC and/or Diamond drilling to follow up on the results received from this drill program.
		extensions or large-scale step-out drilling).	received from this drift program.
7		Diagrams clearly highlighting the areas of possible extensions, including the main	
7		geological interpretations and future drilling areas, provided this information is not	
		commercially sensitive.	



Section 3 - Estimation and Reporting of Mineral Resources

	Criteria	JORC Code explanation	Commentary
	Database integrity	Measures taken to ensure that data has not been corrupted by, for example, transcription or keying errors, between its initial collection and its use for Mineral Resource estimation purposes.	Geological logging and sampling took place on-site with data capture straight into Excel files. The collar and assay data were reviewed by compiling the database in Excel, and importing into various three-dimensional modelling packages. Some minor numbering discrepancies were identified and amended
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		Data validation procedures used.	Optiro conducted data validation checks as part of the drillhole desurveying process such as •missing assays and collars •below detection limit values •overlapping and duplicated sample intervals •comparison of assay and geology depths against collar end of hole depths All issues found were resolved prior to commencing statistical analysis.
	Site visits	Comment on any site visits undertaken by the Competent Person and the outcome of those visits.	A site visit was not carried out by Optiro.
	5	If no site visits have been undertaken indicate why this is the case.	Nexus's Competent Person has undertaken 3 site visits during each of the drilling campaigns undertake. Drilling and sampling was observed with no issues identified.



	Criteria	JORC Code explanation	Commentary
	Geological interpretation		The confidence in the geological interpretation is considered high in the primary zone of mineralisation, a result of consistent geological logging, good data density in the top 150 metres and the accurate reflection of geological mapping.
		Confidence in (or conversely, the uncertainty of) the geological interpretation of the mineral deposit.	The plunging NW zone has been well constrained above 50 metres below surface though limited pierce points in mineralisation below this depth results in reduced geological confidence.
			Four small additional mineralised structures have been defined, two parallel to each of the zones discussed above. These have limited data to constrain them and have low geological confidence.
Į,		Nature of the data used and of any assumptions made.	The geological interpretation is based on logging data assisted by assay results. The oxidation interpretation is based on geological logging codes, observations from core photographs and surface geological mapping. Oxidation boundaries were assumed to be gradational transitions relative to grade trends within the mineralised domains.
		The effect, if any, of alternative interpretations on Mineral Resource estimation.	No alternative interpretations have been considered. The additional drilling completed by Nexus produced results that were consistent with the structures interpreted by Saracen during the previous phase of resource estimation. This suggests the existing interpretation is relatively robust.
		The use of geology in guiding and controlling Mineral Resource estimation.	There is a clear relationship between mineralisation and the footwall conglomerate, with mineralisation within the overlying shale on or close to the contact. Additional guidance for the interpretation is provided by: chlorite alteration, 2-5% quartz/sulphide content and elevated magnetic susceptibility values.
1		The factors affecting continuity both of grade and geology.	The Pinnacles East mineralisation style is characteristic of a shear hosted orogenic gold deposit. The key factor affecting the continuity of grade and geology is the sheared contact between the mineralised shale and underlying conglomerate. Mineralisation is uniformly spread within the deposit, except to the north where intense folding has resulted in significantly wider mineralised intersections.



Criteria	JORC Code explanation	Commentary
Dimensions	The extent and variability of the Mineral Resource expressed as length (along strike or otherwise), plan width, and depth below surface to the upper and lower limits of the Mineral Resource	The Pinnacles East deposit has a defined strike length of 300 metres and is constrained at its northern and southern ends by barren drilling with contrasting geological characteristics. Mineralised structures dip steeply and have been drill tested to a depth of 300 m below surface.
Estimation and modelling techniques	The nature and appropriateness of the estimation technique(s) applied and key assumptions, including treatment of extreme grade values, domaining, interpolation parameters and maximum distance of extrapolation from data points. If a computer assisted estimation method was chosen include a description of computer software and parameters used.	Gold grade estimation used Ordinary Kriging (OK) in Datamine Studio 3 software. Gold grade distributions within the mineralised domains exhibited relatively low degrees of variability which allowed the application of Ordinary Kriging, however topcuts were applied to sample data supporting the main mineralisation hosts. The vast majority of the grade estimation occurred with the maximum grade continuity ranges determined from the geostatistical analysis. The drillhole coverage precluded grade estimates derived by extrapolation to a depth of around 200 m below surface. At greater depths, grade may have been extrapolated to around 50 m down dip and lesser distances along strike.
	The availability of check estimates, previous estimates and/or mine production records and whether the Mineral Resource estimate takes appropriate account of such data.	A previous resource estimate was completed by Saracen Gold Mines Pty Ltd in 2012. The depth limit of this estimate is substantially less than the current model and was based on a less selective interpretation than is the currently the case. These two factors, combined with changes to density factors underpin the primary tonnage and grade contrasts between the two models with the current model reporting 11% less tonnes, 86% higher grade and 65% higher metal when reported within a common area covered by both. No previous mining activity has taken place in this area.
	The assumptions made regarding recovery of by-products.	No assumptions have been made regarding recovery of by-products.
	Estimation of deleterious elements or other non-grade variables of economic significance (e.g. sulphur for acid mine drainage characterisation).	No deleterious elements have been recognised or estimated.



Criteria	JORC Code explanation	Commentary
	In the case of block model interpolation, the block size in relation to the average sample spacing and the search employed.	The Pinnacles East block model was created with parent block dimensions of 5 mE by 10 mN by 5 mRL. Block sub-celling was allowed down to a minimum block size of 1 mE by 1 mN by 1 mRL to represent the narrow tabular domain boundaries.
		Grade estimation used a three pass search. The primary search radii were based on the maximum variogram range (90 m by 60 m by 3 m). The same search pass was used for all domains. Minimum (12) and maximum (33) informing sample numbers remained constant between the primary, secondary and tertiary searches. The primary search radii were doubled for the secondary search and quadrupled for the tertiary search. The maximum number of samples that could be utilised from a single drillhole was limited to 3. 80 to 85% of the main mineralisation domain blocks were informed by the first search pass. 15 to 16% were informed by the second search pass.
	Any assumptions behind modelling of selective mining units.	No selective mining units were assumed in this estimate.
	Any assumptions about correlation between variables.	Only gold grade has been estimated
	Description of how the geological interpretation was used to control the resource estimates.	Drillhole sample data was flagged using domain codes generated from mineralisation interpretations. Mineralisation domains were treated as hard boundaries in the estimation. Oxidation was used to control density assignment.
	Discussion of basis for using or not using grade cutting or capping.	Top-cut analysis of gold grade was undertaken by viewing grade distribution plots and by identifying values at which the population distributions started to become discontinuous. Top-cuts were employed to reduce the influence of high-grade outliers that could affect the quality of a resource estimate. Based on this analysis, top-cuts were assigned to the two main mineralisation host domains.



	Criteria	JORC Code explanation	Commentary
		The process of validation, the checking process used, the comparison of model	Estimated block grades were compared to the input drill data on a domain basis using visual appraisal, domain average grade comparisons and grade swath plots.
		data to drillhole data, and use of reconciliation data if available.	Visual validation of grade trends and distributions was carried out.
			No mining has taken place; therefore no reconciliation data is available.
Moisture		Whether the tonnages are estimated on a dry basis or with natural moisture, and the method of determination of the moisture content.	The tonnages are estimated on a dry basis.
Cut-off pa	arameters	The basis of the adopted cut-off grade(s) or quality parameters applied	Mineralisation is defined by geological features and a nominal 0.5 g/t cut-off grade. The resource is reported above a combination of potential open pit and underground cut-off grades depending on the potential mining method that more likely applicable. No quality parameters have been applied.
Mining fa	ctors or assumptions	Assumptions made regarding possible mining methods, minimum mining dimensions and internal (or, if applicable, external) mining dilution. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential mining methods, but the assumptions made regarding mining methods and parameters when estimating Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the mining assumptions made.	It is assumed that the Pinnacles East resource will be exploited using selective open pit mining methods. The reported resource has been constrained to the limits of a pit shell constructed assuming typical eastern goldfields wall angles, mining costs and processing costs, and toll milling. A projected future gold price of AUD2,100 was assumed.
Metallurg	gical factors or ons	The basis for assumptions or predictions regarding metallurgical amenability. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider potential metallurgical methods, but the assumptions regarding metallurgical treatment processes and parameters made when reporting Mineral Resources may not always be rigorous. Where this is the case, this should be reported with an explanation of the basis of the metallurgical assumptions made.	Metallurgical recovery of gold was assumed to vary between 90 and 95% depending on oxidation condition when evaluating the limits of reasonable eventual economic extraction by open pit mining.



Criteria	JORC Code explanation	Commentary
Environmental factors or assumptions	Assumptions made regarding possible waste and process residue disposal options. It is always necessary as part of the process of determining reasonable prospects for eventual economic extraction to consider the potential environmental impacts of the mining and processing operation. While at this stage the determination of potential environmental impacts, particularly for a greenfields project, may not always be well advanced, the status of early consideration of these potential environmental impacts should be reported. Where these aspects have not been considered this should be reported with an explanation of the environmental assumptions made	No assumptions have been made. Environmental factors will form part of future works.
Bulk density	Whether assumed or determined. If assumed, the basis for the assumptions. If determined, the method used, whether wet or dry, the frequency of the measurements, the nature, size and representativeness of the samples.	Fresh rock dry density factors have been determined from 92 core samples drawn from two diamond drillholes using water displacement measurement methods. Six of these samples represent mineralisation while the rest are surrounding waste rock. Typical eastern gold fields density factors have been applied to oxidised and transition mineralised and un-mineralised lithologies.
	The bulk density for bulk material must have been measured by methods that adequately account for void spaces (vugs, porosity, etc), moisture and differences between rock and alteration zones within the deposit,	Measurements were taken using the "Archimedes Principle" water displacement technique on diamond drill core. The fresh rocks from which density measurements have been collected where high silicified which precluded the need for wax coating.
2) = 5)	Discuss assumptions for bulk density estimates used in the evaluation process of the different materials.	Average density values were assigned relative to mineralisation and oxidation conditions. Assumed averages were applied to the oxidised and transitional portions of the resource.



Criteria	JORC Code explanation	Commentary
Classification		The Mineral Resource classification is based on confidence in the geological and grade continuity, along with coverage achieved by the drillhole grid and surface outcrop mapping.
	The basis for the classification of the Mineral Resources into varying confidence categories	On this basis, much of the upper portion of the Pinnacles East deposit has been assigned to an Indicated category with the remaining resource within the limits determined via eventual economic extraction analysis assigned to an Inferred category. Material outside the eventual economic extraction limits has not been classified or reported.
	Whether appropriate account has been taken of all relevant factors (i.e. relative confidence in tonnage/grade estimations, reliability of input data, confidence in continuity of geology and metal values, quality, quantity and distribution of the data).	The resource classification process addresses all known contributing issues
	Whether the result appropriately reflects the Competent Person's view of the deposit.	The Mineral Resource estimate appropriately reflects the view of the Competent Persons
Audits or reviews	The results of any audits or reviews of Mineral Resource estimates.	No audits have been undertaken on the 2016 Mineral Resource Estimate at this stage.
	Where appropriate a statement of the relative accuracy and confidence level in the Mineral Resource estimate using an approach or procedure deemed appropriate by the Competent Person. For example, the application of statistical or geostatistical procedures to quantify the relative accuracy of the resource within stated confidence limits, or, if such an approach is not deemed appropriate, a qualitative discussion of the factors that could affect the relative accuracy and confidence of the estimate	The relative accuracy of the Mineral Resource estimate is reflected in the reporting of the Mineral Resource as per the guidelines of the JORC Code (2012 Edition). No attempt has been made to quantify relative accuracy and confidence at this stage of analysis.



Criteria	JORC Code explanation	Commentary
	The statement should specify whether it relates to global or local estimates, and, if local, state the relevant tonnages, which should be relevant to technical and economic evaluation. Documentation should include assumptions made and the procedures used	The statement relates to global estimates of tonnes and grade.
D	These statements of relative accuracy and confidence of the estimate should be compared with production data, where available	No production data is available.