

December 2019 Quarterly EKJV Exploration Report

ASX ANNOUNCEMENT

30 January 2020

Australian Securities Exchange Code: RND

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Rand Mining Ltd (ASX code: RND) provides the December 2019 Quarterly EKJV Exploration Report as received from Northern Star Resources Limited on 29 January 2020.

The information contained in the attached Quarterly Exploration Report has been prepared by Northern Star Resources Limited and Rand makes no comment on its accuracy or completeness.

Please note that the previous issue report of today's date was incorrectly labled

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EAST KUNDANA JOINT VENTURE



December 2019 Quarterly EKJV Exploration Report

For distribution to JV Partners:

- Northern Star Resources Limited
- Tribune Resources Limited
- Rand Mining Limited



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1 EXECUTIVE SUMMARY

Exploration activity in the December 2019 quarter across the East Kundana Joint Venture focused on Falcon.

Project	Prospect	Tenement	RAB/AC Metres	RAB/AC Samples	RC Metres	RC Samples	DD Metres	DD Samples	ME Samples
Hornet- Rubicon- Pegasus	Falcon	M16/309	-	-	-	-	3,333	3,736	-

Table 1 - EKJV exploration activity for the December 2019 Quarter.

2 EXPLORATION ACTIVITY

No surface exploration activities were conducted in the December quarter. In-mine UG exploration at EKJV consisted of programs targeting the Falcon prospect.

2.1 Rubicon-Hornet-Pegasus In-mine Exploration

A total of seven diamond drill holes for 3,333 metres were completed with all holes targeting the Falcon trend. Drilling was conducted from underground platforms in Hornet Incline and the Pegasus RAW.

HoleID	Tenement	Start Date	End Date	Depth	East (MGA)	North (MGA)	RL (MGA)	Hole Type	Dip	Azimuth (MGA)
FALDT19256	M16/309	29-Nov-19	4-Dec-19	487	333748	6596916	214	DD	-8	208
FALDT19257	M16/309	10-Dec-19	15-Dec-19	531	333748	6596916	214	DD	-26	220
FALDT19260	M16/309	3-Dec-19	10-Dec-19	577	333748	6596916	214	DD	-8	256
FALRT19131	M16/309	13-Oct-19	15-Oct-19	351	332876	6598036	-184	DD	-17	189
FALRT19133	M16/309	22-Oct-19	26-Oct-19	417	332875	6598037	-184	DD	-52	244
FALRT19134	M16/309	16-Oct-19	21-Oct-19	529	332875	6598037	-184	DD	-49	212
FALRT19135	M16/309	26-Oct-19	30-Oct-19	441	332875	6598037	-184	DD	-54	227

Table 2 - Drilling physicals for the in-mine exploration at Hornet-Rubicon-Pegasus project during Q2 FY19/20.

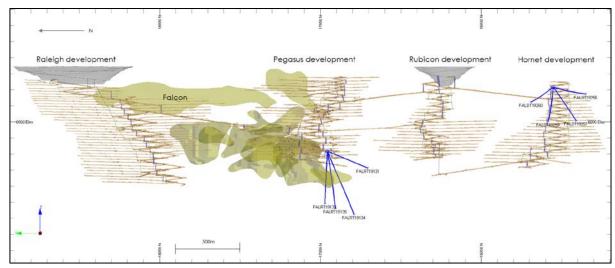


Figure 1: Overview of Hornet-Rubicon-Pegasus and Raleigh projects showing in-mine exploration drilling programs targeting the Falcon prospect drilled during the December quarter. FALDT19259 was collared but not completed in the quarter.



3 EXPLORATION RESULTS

3.1 Hornet-Rubicon-Pegasus

3.2.1 Falcon

In the December quarter results were received for some Falcon holes drilled late in the September quarter. None of the holes recorded a significant intersection.

Hole ID	East (MGA)	North (MGA)	RL (AHD)	Dip	Azi (MGA)	Hole Depth (m)	From (m)	To (m)	DH Width (m)	Grade g/t Au	Est TW (m)
FALRT19128	332875	6598036	-184	-17	200	318	-	-	-	NSI	-
FALRT19132	332876	6598036	-184	-30	192	423	-	-	-	NSI	-
FALRT19137	333308	6597632	178	-14	230	434	-	-	-	NSI	-
FALRT19138	333308	6597632	180	-6	243	499	-	-	-	NSI	-

Table 3: Results returned in the December quarter from holes drilled in the Sept 19 Quarter.

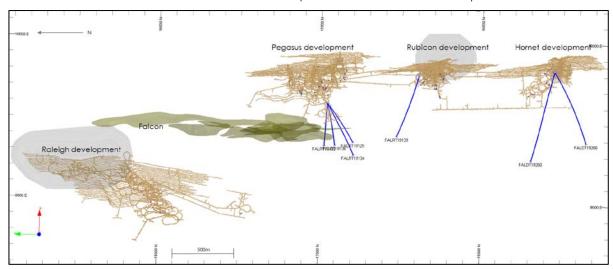


Figure 2: Plan view of Rubicon-Hornet-Pegasus and Raleigh project showing in-mine exploration programs targeting the Falcon lodes that have returned significant intercepts in the December quarter.

Seven diamond holes targeting Falcon returned results in the quarter with all but one intersecting significant gold mineralisation. FALRT19133 tested the southern extent of Falcon to the west of P5796DD development at 5640 mRL, returned a narrow intercept – 0.1 m (tw) @ 21.3 g/t. FALRT19135 tested Falcon's southern extents at 5600 mRL and returned two Falcon lode intercepts shown in Figure 3 – 0.5 m (tw) @ 28.31 g/t and 0.1m (tw) @ 27.4g/t.

Hole ID	East (MGA)	North (MGA)	RL (AHD)	Dip	Azi (MGA)	Hole Depth (m)	From (m)	To (m)	DH Width (m)	Grade g/t Au	Est TW (m)
FALRT19131	332876	6598036	-184	-17	189	351	-	-	-	NSI	-
FALRT19133	332875	6598037	-184	-52	244	417	218.45	218.75	0.3	21.3	0.1
							358.0	361.71	3.71	1.76	1.6
							363.72	364.08	0.36	2.04	0.2
							366.4	366.68	0.28	2.05	0.1
							376.07	376.58	0.51	2.14	0.2
FALRT19134	332875	6598037	-184	-49	212	529	221.0	221.45	0.45	2.58	0.2
							224.05	224.55	0.5	7.39	0.2
							230.0	232.4	2.4	2.13	1.0
							235.8	240.0	4.2	2.55	1.7
							246.5	247.25	0.75	3.47	0.3
							255.65	261.4	5.75	1.89	2.3
							264.5	269.45	4.95	2.09	2.0
FALRT19135	332875	6598037	-184	-54	227	529	252.66	253.03	0.37	3.89	0.1
							255.91	256.23	0.32	8.37	0.1
							258.83	259.18	0.35	2.30	0.1
							264.72	265.81	1.09	28.30	0.5
							267.2	268.58	1.38	2.28	0.6
							269.82	270.24	0.42	10.4	0.2
							272.26	272.64	0.38	2.20	0.2
							302.34	302.69	0.35	3.22	0.1



Hole ID	East (MGA)	North (MGA)	RL (AHD)	Dip	Azi (MGA)	Hole Depth (m)	From (m)	To (m)	DH Width (m)	Grade g/t Au	Est TW (m)
							340.66	341.0	0.34	3.16	0.1
							346.97	347.2	0.23	27.4	0.1
							375.0	375.34	0.34	2.36	0.1
							377.43	377.86	0.43	3.22	0.2
							401.4	401.7	0.3	2.64	0.1
FALDT19256	333748	6596916	214	-8	208	487	82.55	83.16	0.61	4.9	0.5
							87.75	88.7	0.95	3.9	8.0
							97.55	102.53	4.98	3.2	4.0
							103.45	104.15	0.70	2.4	0.6
							104.15	105.17	1.02	11.4	8.0
							108.63	109.15	0.52	2.9	0.4
							109.15	110.2	1.05	2.4	8.0
							113.65	114.5	0.85	2.6	0.7
							115.35	115.8	0.45	3.5	0.4
							117.55	119.25	1.70	2.7	1.4
							119.25	120	0.75	13.0	0.6
							236.5	237	0.50	2.6	0.4
FALDT19257	333748	6596916	214	-26	220	531	Assays pending				
FALDT19260	333748	6596916	214	-8	256	577	120.6	121	0.40	2.8	0.2
							121.5	121.94	0.44	2.1	0.3
							125	125.5	0.50	4.6	0.3
							128.59	129.07	0.48	2.7	0.3

Table 3. Summary of significant assays results for Falcon.

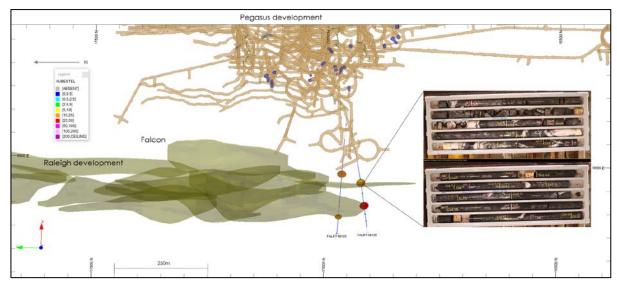


Figure 3: Plan view of Falcon and core photos of significant results in FALRT19133 and FALRT19135

4 Future Work

4.1 In-mine Exploration

Exploration drilling will continue to test the southern extents of the Falcon trend, primarily targeting areas proximal to the Mary Fault Zone.

Drilling will commence targeting potential footwall zones east of the existing Pegasus and Rubicon development.

Competency statement

The information in this report relating to Exploration Results is based on information compiled by Dr Rick Gordon who is a Member of the Australian Institute of Geoscientists and has sufficient exploration experience which is relevant to the style of mineralisation under consideration 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'. Dr Gordon is a full-time employee of Northern Star Resource Limited and consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.



5 APPENDIX 1

JORC Code, 2012 Edition - Table 1

Section 1 Sampling Techniques and Data

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

	1	
Criteria	JORC Code Explanation	Commentary
Sampling techniques	 Nature and quality of sampling (e.g. 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. 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 (e.g. 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30g 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 (e.g. submarine nodules) may warrant disclosure of detailed information. 	 Sampling was completed using diamond drill core (DD). Diamond core was transferred to core trays for logging and sampling. Half core or full core samples were nominated by the geologist from HQ or NQ diamond core, with a minimum sample width of 20cm and a maximum width of 120cm. Samples were transported to various analysis laboratories in Kalgoorlie for preparation by drying, crushing to <3mm, and pulverizing the entire sample to <75µm. 300g Pulp splits were analysed in laboratories in both Kalgoorlie and Perth for 40-50g Fire assay charge and AAS analysis for gold.
Drilling techniques	 Drill type (e.g. core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc.) and details (e.g. 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.). 	 For underground drilling, NQ2 (50.6mm) diameter core was used. Core was orientated using an electronic 'back-end tool' core orientation system.
Drill sample recovery	 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 bias may have occurred due to preferential loss/gain of fine/coarse material. 	 For diamond drilling the contractors adjust their rate of drilling and method if recovery issues arise. All recovery is recorded by the drillers on core blocks. This is checked and compared to the measurements of the core by the geological team. Any issues are communicated back to the drilling contractor. Recovery was excellent for diamond core and no relationship between grade and recovery was observed.
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.) photography. The total length and percentage of the relevant intersections logged. 	 All diamond core is logged for regolith, lithology, veining, alteration, mineralisation and structure. Structural measurements of specific features are taken through oriented zones. All logging is quantitative where possible and qualitative elsewhere. A photograph is taken of every core tray.



Criteria	JORC Code Explanation	Commentary
Sub-sampling techniques and sample preparation	 If core, whether cut or sawn and whether quarter, half or all core taken. If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry. 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. Measures taken to ensure that the sampling is representative of the insitu 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. 	 All diamond core that was half-core sampled was cut longitudinally with an automated core saw. Sample preparation was conducted at various laboratories in Kalgoorlie, commencing with sorting, checking and drying at less than 110°C to prevent sulphide breakdown. Samples are jaw crushed to a nominal -6mm particle size. The entire crushed sample is then pulverized to 90% passing 75µm, using a bowl or ring-mill pulveriser. 300g Pulp subsamples are then taken with an aluminium scoop and stored in labelled pulp packets. Grind checks are performed at both the crushing stage (3mm) and pulverising stage (75µm), requiring 90% of material to pass through the relevant size to ensure consistent sample preparation.
Quality of assay data and laboratory tests	 The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total. 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. Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established. 	 A 40-50g fire assay charge is used with a lead flux, dissolved in the furnace. The prill is totally digested in HCl and HNO3 acids before Atomic Absorption Spectroscopy (AAS) determination for gold analysis. This method ensures total gold is reported appropriately. No geophysical tools were used to determine any element concentrations Certified Reference Materials (CRMs) are inserted into the sample sequence randomly at a rate of 1 per 20 composite samples to ensure correct calibration. Any values outside of 3 standard deviations are scrutinised and re-assayed with a new CRM if the failure is deemed genuine. Blanks are inserted into the sample sequence at a rate of 1 per 20 composite samples. Failures above 0.2g/t are scrutinised, and re-assayed if required. New pulps are prepared if failures remain. All sample QAQC results are assessed by geologists to ensure the appropriate level of accuracy and precision when the results have been returned from the laboratory.
Verification of sampling and assaying	 The verification of significant intersections by either independent or alternative company personnel. The use of twinned holes. Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. Discuss any adjustment to assay data. 	 All significant intersections are verified by the project geologist and senior geologist during the drill hole validation process. No holes were twinned as part of the programmes in this report. Geological logging was captured using Acquire database software. Both a hardcopy and electronic copy of these are stored. Assay files are received in csv format and loaded directly into the database by the supervising geologist who then checks that the results have inserted correctly. Hardcopy and electronic copies of these are also kept. No adjustments are made to this assay data.
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. Specification of the grid system used. Quality and adequacy of topographic control. 	All collars for underground drilling are located in the local mine grid by a mine surveyor using a laser theodolite.



Criteria	JORC Code Explanation	Commentary
Data spacing and distribution	 Data spacing for reporting of Exploration Results. 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. Whether sample compositing has been applied. 	 In-mine diamond drillholes spacings are also variable from 80m apart through to isolated single drillholes. Closer spaced drilling is considered operational drilling, beyond the scope of this report.
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 bias, this should be assessed and reported if material. 	 All drilling both underground and surface is oriented as close as practical to perpendicular to the target structures. The orientation of all in-mine target structures is well known and drill holes are only designed where meaningful intercept angles can be achieved. No sampling bias is considered to have been introduced by the drilling orientation.
Sample security	The measures taken to ensure sample security.	 Prior to laboratory submission samples are stored by Northern Star in a secure yard. Once submitted to the laboratories they are stored in a secure fenced compound and tracked through their chain of custody via audit trails.
Audits or reviews	 The results of any audits or reviews of sampling techniques and data. 	 No audits or reviews have recently been conducted on sampling techniques; however, lab audits are conducted on a regular basis.



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. 	 All diamond holes mentioned in this report are located within the M16/309 and M15/993 Mining leases held by The East Kundana Joint Venture (EKJV). The EKJV is majority owned and managed by Northern Star Resources Ltd (51%). The minority holding in the EKJV is held by Tribune Resources Ltd (36.75%) and Rand Mining Ltd (12.25%).
	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.	 M16/309 is subject to two royalty agreements; however, neither of these is applicable to the Prospects described in this report. The agreements concerned are the Kundana- Hornet Central Royalty and the Kundana Pope John Agreement No. 2602-13. No known impediments exist and the tenement is in good standing
Exploration done by other parties	 Acknowledgment and appraisal of exploration by other parties. 	 Underground drilling on the Raleigh and Hornet-Rubicon-Pegasus mines extends the mineralised trends from older drilling including that of previous operators of those mines including Barrick Gold, Placer Dome Asia-Pacific, Aurion Gold, Goldfields Limited and other predecessors.
Geology	Deposit type, geological setting and style of mineralisation.	• The Kundana camp is situated within the Norseman-Wiluna Greenstone Belt, in an area dominated by the Zuleika Shear Zone, which separates the Coolgardie domain from the Ora Banda domain. The Zuleika Shear Zone in the Kundana area comprises multiple anastomosing shears the most important of which are the K2, the K2A and Strzelecki Shears.
		• Raleigh mineralisation is hosted on the Strzelecki Structure. Strzelecki mineralisation consists of very narrow, very high-grade mineralisation on a laminated vein hosted in the camp-scale Strzelecki Shear which abuts a differentiated mafic intrusive, the Powder Sill Gabbro against intermediate volcanoclastic rocks (Black Flag Group). A thin 'skin' of volcanogenic lithic siltstone-sandstone lies between the gabbro and the Strzelecki shear. Being bound by an intrusive contact on one side and a sheared contact on the other, the thickness of the sedimentary package is highly variable from absent to about forty metres true width.
		• The Hornet-Rubicon-Pegasus mineralisation consists primarily of high-grade laminated vein hosted gold on the K2 plane of the Zuleika shear with additional mineralisation on associated lower order structures. The Falcon target is a related mineralised zone in the hangingwall to Pegasus and between the two main Zuleika structures, the K2 and Strzelecki structures.



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	Refer to the various tables in the body of this report.
	all material drill holes:	 Exploration results that are not material to this report are excluded for some drill programmes however the drill physicals are all detailed for all drilling regardless of the outcome.
	 easting and northing of the drill hole collar 	nowever the drift physicals are all detailed for all driftling regardless of the outcome.
	 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 (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated. 	All drill results are reported as aggregates across the target zone.
	 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.	 The orientation of target structures is well known for all in-mine exploration targets and true widths can be accurately calculated and are reported accordingly.
intercept lengths	If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.	Both the downhole width and true width have been clearly specified when used.
	• If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g. '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 figures the body of this report for the spatial context of all holes planned and drilled to date.
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. 	Exploration results that are not material to this report are excluded for some drill programmes however the drill physicals are all detailed for all drilling regardless of the outcome.



Criteria	JORC Code Explanation	Commentary
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, geotechnical and rock characteristics; potential deleterious or contaminating substances. 	 No other material exploration data has been collected for this drill program.
Further work	 The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling). Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive. 	 Drilling will continue to test the southern extents of Falcon, primarily targeting potential high-grade plunges proximal to the Mary Fault Zone. Drilling will commence targeting potential footwall mineralisation in January, east of the existing Pegasus and Rubicon development.