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ASX Release

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Executive Chairman: Andy Viner

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Issued Capital

Shares: 966,993,360

Unlisted Options: 29,000,000

ASX Symbol: AYR

HORSE WELL GOLD PROJECT (AYR 40%) Large New Gold Anomalies at the Horse Well Gold Project

Alloy Resources Limited (ASX: **AYR**, **Alloy** or the **Company**) is pleased to report the final results from the major program of aircore exploration drilling completed at the Horse Well Gold Project in the North-Eastern Goldfields of Western Australia in late 2016.

Joint Venture Manager Doray Minerals Limited (ASX:DRM, Doray) has advised that;

- Results from the final 390 holes totalling 23,637 metres of a major air-core drilling programme have been received, compiled and interpreted.
- The Company can report on this second phase of the drilling which saw holes allocated to 800 metre x 160 metre regional first pass drilling of an untested 7.5-kilometre section of the greenstone belt south of the Django prospect.
- The drilling has outlined three large anomalous gold trends extending south from the Django and Crack of Dawn South prospects;
 - 7-kilometre-long eastern anomaly
 - 6-kilometre-long central anomaly
 - > 3-kilometre-long western anomaly
 - The eastern and central anomalies are associated with a newly defined extensive granite intrusive that appears to intrude the Celia Shear at the contact between western sedimentary units and eastern mafic units.

Better results were:

- HWAC874, 20m @ 0.27 g/t Au from 56 mdh
- > HWAC915, 8m @ 0.84 g/t Au from 64 mdh
- HWAC995, 4m @ 1.49 g/t Au from 72 mdh
- > HWAC1039, 8m @ 0.35 g/t Au from 56 mdh
- HWAC1053, 4m @ 0.84 g/t Au from 48 mdh
- HWAC1144, 28m @ 0.33 g/t Au from 52 mdh
- > HWAC1153, 4m @ 0.90 g/t Au from 76 mdh
- The Joint Venture is currently planning programmes and budgets for follow-up air-core exploration drilling to test these first pass widely spaced anomalies.

The Horse Well Joint Venture comprises Doray Minerals Limited (60%) and Alloy Resources Limited (40%) and has completed a \$2 million exploration program during 2016.

The 1,000 km² Project covers 60 strike kilometres of greenstone belt located 50 kilometres north of the large 240 koz p.a Jundee Mine operated by Northern Star Limited (Figure 1)

Exploration during the September and December quarters of 2016 has been focussed on first and second pass geochemical drilling to define new gold anomalies beneath the sand covered northern 'Dawn' prospects area.

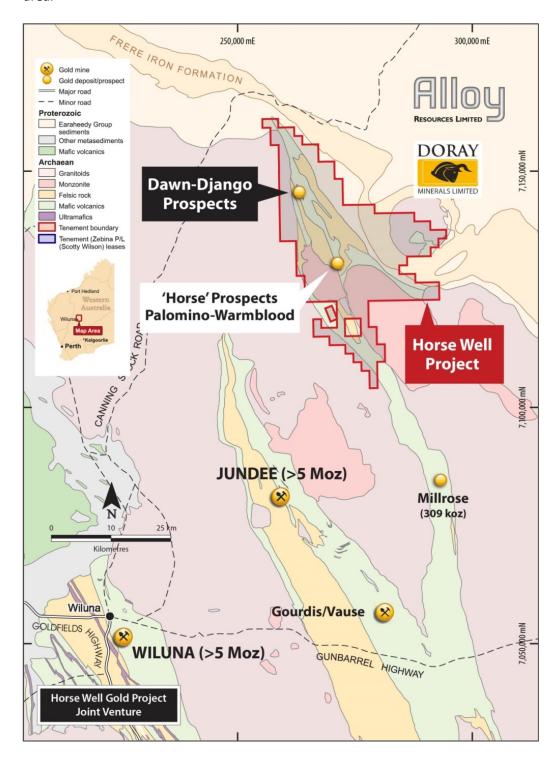


Figure 1 Horse Well Project location on regional geology

The planned geochemical drilling which has been completed is shown in Figure 2 below. Phase 1 infill holes which were reported on in October 2016 are shown in blue and Phase 2 first pass holes which are reported on today are shown in red.

The second phase of the drilling saw holes allocated to 800 metre x 160 metre regional first pass drilling of an untested 7.5-kilometre section of the greenstone belt south of the Django prospect.

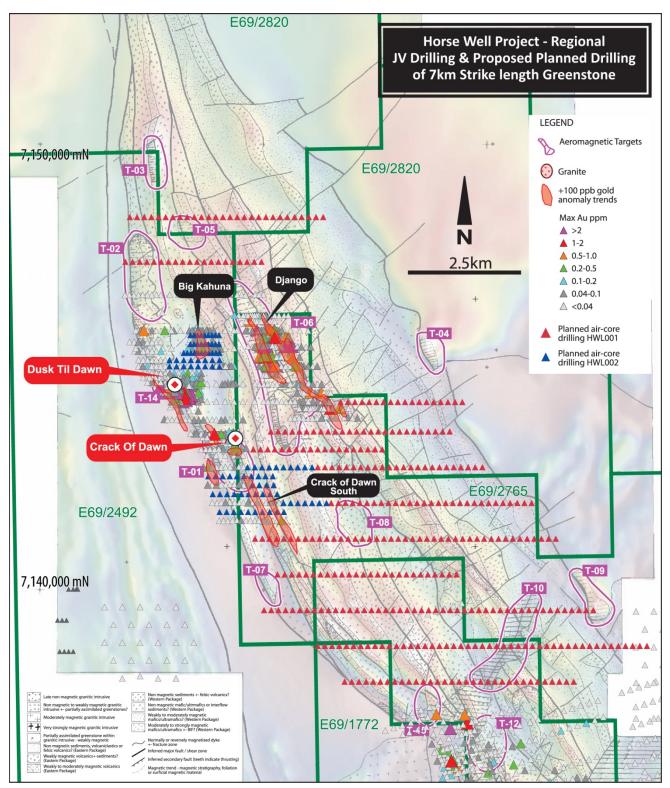


Figure 2 September-December Quarter air-core drilling locations on aeromagnetics.

The completed drill programme, colour coded for maximum gold down hole, is shown on Figure 3 below. This diagram also shows the newly interpreted sub-surface geology based on the dominant end-of-hole lithology's logged from the new drilling.

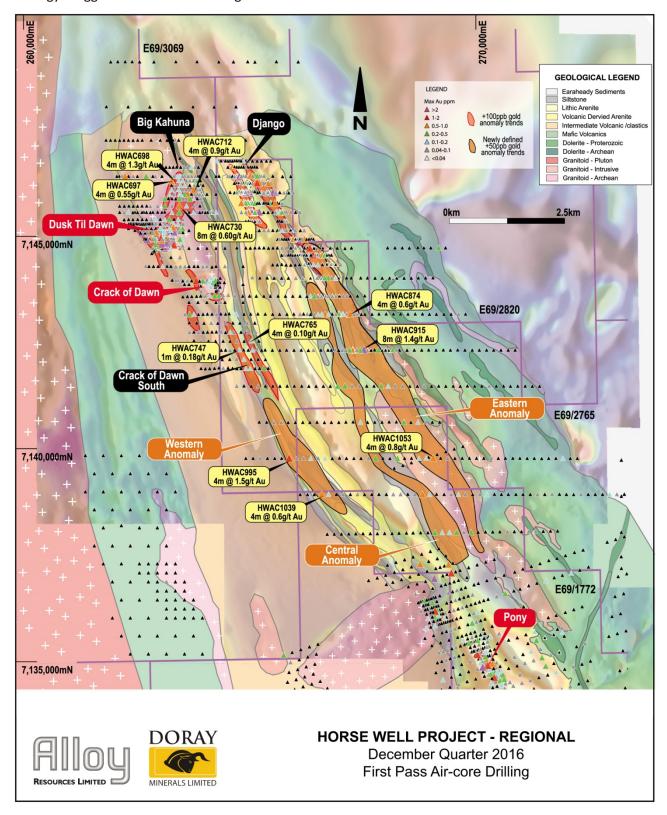


Figure 3 Infill drilling and anomalous trends at Big Kahuna and Crack of Dawn South on geology

Interpretation of Results

The first pass drilling across approximately 7.5 kilometres' strike of greenstone belt has been very successful in defining new extensive gold anomalies through the area south of the Django prospect down to historical drilling at the Pony prospect.

In the central portion of the belt at the junction of western metasedimentary rocks with eastern mafic rocks, a large suite of granite has intruded. This junction is also thought to be structural in nature and is interpreted to be the location of the Celia shear.

Gold mineralisation is intimately associated with this junction and two parallel 6 and 7-kilometre-long continuous anomalous trends occur in this area. Anomalies are defined as + 50 ppb Au due to the very wide spacing of the first pass drilling at 800m x 160m. The presence of the granite intrusives was unexpected and offers a compelling target for gold mineralisation, which may be similar in nature to the Company's Dusk til Dawn prospect.

A third anomaly is located to the west and extends over three kilometres along the western contact of a siltstone unit.

Executive Chairman Andy Viner commented "Once again we continue to generate new gold anomalies from first pass drilling which, to me, shows that we have a very large mineralised system in the area. We now have a number of compelling new targets that have excellent potential to be new gold discoveries."

Significant results are shown in Table 1 below;

Table 1 Significant intersections (>0.1 g/t Au) from Phase 2 first pass air-core drilling

Hole ID	East	North	RL	Dip/Azi	Max Depth	Metres From	Metres	Width (m)	Au Grade (g/t)
HWAC870	266685	7142797	550	-60/270	120	80	84	4	0.12
HWAC871	266840	7142801	541	-60/270	97	48	52	4	0.1
HWAC873	267159	7142800	535	-60/270	87	48	52	4	0.11
HWAC874	267317	7142798	540	-60/270	76	56	76	20	0.27
"	II	II	"	=	incl.	60	64	4	0.56
HWAC913	267304	7142001	543	-60/270	101	56	60	4	0.27
HWAC915	267619	7142005	541	-60/270	87	48	52	4	0.56
"	II	II	=	=	=	56	60	4	0.11
II .	11	"	=	=	=	64	72	8	0.84
HWAC917	267941	7142007	544	-60/270	105	64	68	4	0.29
HWAC919	268262	7142004	544	-60/270	100	40	48	8	0.18
HWAC934	267038	7141201	546	-60/270	113	56	60	4	0.2
HWAC935	267199	7141202	554	-60/270	103	72	76	4	0.24
HWAC940	268002	7141204	543	-60/270	40	39	40	1	0.22
HWAC941	268161	7141201	546	-60/270	57	40	44	4	0.11
HWAC977	267547	7140402	553	-60/270	112	84	88	4	0.1
HWAC983	268508	7140405	546	-60/270	66	52	56	4	0.25
HWAC985	268823	7140403	549	-60/270	53	8	12	4	0.11
II .	"	"	=	=	=	44	53	9	0.13
HWAC995	265960	7139603	539	-60/270	105	72	76	4	1.49
HWAC998	266442	7139600	550	-60/270	97	92	96	4	0.13
HWAC1000	266760	7139601	546	-60/270	71	64	68	4	0.11
HWAC1007	267879	7139599	545	-60/270	101	68	72	4	0.13

п	"	ıı ı	II .	"	"	92	100	8	0.15
HWAC1010	268364	7139600	541	-60/270	70	60	64	4	0.35
HWAC1013	268841	7139596	551	-60/270	80	52	56	4	0.14
HWAC1014	269002	7139605	544	-60/270	66	52	56	4	0.14
"	II	11	11	II .	=	60	64	4	0.1
HWAC1015	269160	7139603	542	-60/270	34	32	34	2	0.36
HWAC1033	272040	7139599	541	-60/270	33	28	32	4	0.11
HWAC1039	266685	7138803	544	-60/270	66	56	64	8	0.35
HWAC1040	266838	7138803	548	-60/270	61	60	61	1	0.11
HWAC1053	268918	7138801	548	-60/270	76	48	52	4	0.84
HWAC1054	269077	7138802	544	-60/270	53	52	53	1	0.15
HWAC1058	269718	7138802	542	-60/270	26	25	26	1	0.1
HWAC1062	270352	7138799	541	-60/270	84	36	40	4	0.11
II .	"	11	II	II .	=	44	48	4	0.11
HWAC1079	273076	7138802	541	-60/270	120	28	32	4	0.19
HWAC1098	269197	7137953	547	-60/270	64	44	48	4	0.22
HWAC1099	269359	7137953	547	-60/270	96	44	48	4	0.12
HWAC1100	269519	7137955	550	-60/270	99	56	60	4	0.1
HWAC1101	269679	7137957	545	-60/270	75	60	64	4	0.21
HWAC1103	270000	7137961	544	-60/270	75	64	72	8	0.21
HWAC1133	266831	7143602	528	-60/270	70	40	44	4	0.33
II .	11	"	II .	11	"	52	56	4	0.23
HWAC1134	266993	7143598	533	-60/270	78	12	16	4	0.13
HWAC1139	266437	7143199	535	-60/270	112	72	76	4	0.11
HWAC1144	266757	7142799	530	-60/270	89	52	80	28	0.33
11	11	11	II	II	"	84	88	4	0.1
HWAC1146	267077	7142800	532	-60/270	72	64	68	4	0.28
HWAC1153	267378	7142001	540	-60/270	116	76	80	4	0.9
"	11	11	11	11	11	84	92	8	0.22
HWAC1154	267540	7141999	540	-60/270	84	24	32	8	0.24

Note:

- All coordinates are MGA (GDA94 Zone 51).
- Intervals reported at 0.1g/t cut-off and have a maximum 2 metre internal dilution.
- Sampling by scoop from surface piles. Composited to 4 metres except at end of hole where 1 or 2 metres.
- All assays are aqua-regia digest followed by ICP-MS at 1-4m intervals for Au and multi-element assays. Assays performed by Minanalytical Laboratories of Perth WA.

Planned Exploration

The Joint Venture is currently defining future exploration drilling programmes in the northern area where these new anomalies occur. Infill drilling to 400m x 80m is justified which would be undertaken following heritage clearance of new drill lines and be completed during the June quarter.

Andy Viner

Executive Chairman

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COMPETENT PERSONS STATEMENT

The information in this report which relates to Exploration Results is based on information compiled by Andrew Viner, a Director of Alloy Resources Limited and a Member of the Australasian Institute of Mining and Metallurgy and Mr Mark Cossom who is a full-time employee of Doray Minerals Limited and is a Member of the Australasian Institute of Mining and Metallurgy. Mr Viner and Mr Cossom have sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which they are undertaking 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 Viner and Mr Cossom consent to the inclusion in the report of the matters based on this information in the form and context in which it appears.

Mr Viner is a shareholder and option holder of Alloy Resources Limited.

JORC Code 2012 Edition Summary (Table 1) - Horse Well Regional Aircore December Qtr FY2016

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.	Aircore (AC) drill chips collected through a cyclone laid out on 1m intervals. Samples taken via a scoop on 4m composite intervals.
	 Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used. 	Cyclone is cleaned regularly during drilling. Sampling equipment is cleaned regularly
	Aspects of the determination of mineralisation that are Material to the Public Report.	 Mineralisation determined qualitatively through rock type, sulphide and quartz content and intensity of alteration. Mineralisation determined quantitatively via assay (aqua-regia digest followed by ICP-MS for gold and multi-element data at 1-4m intervals).
	 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. 	 AC samples pulverized to 75 µm All samples analysed by aqua-regia digest followed by ICP-MS for multi-element data and gold at 1-4m intervals.
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).	87mm aircore blade drilling with occasional face sampling hammer, to a maximum vertical depth of 111m.
Drill sample recovery	 Method of recording and assessing core and chip sample recoveries and results assessed. 	AC recoveries recorded at the time of logging and stored in DRM database
	 Measures taken to maximise sample recovery and ensure representative nature of the samples. 	Cyclone is cleaned at the end of each rod to ensure no sample hang- ups have occurred.
		Wet samples due to excess ground water were noted when present.

Criteria	JORC Code explanation	Commentary		
	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.	As sample recoveries are generally very high, there is no known relationship between sample recovery and grade.		
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.	Holes logged to a level of detail to support future mineral resource estimation: lithology; alteration; mineralization; structural.		
	Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.	 Qualitative: lithology, alteration, foliation Quantitative: vein percentage; mineralization (sulphide) percentage; assayed for gold 		
	The total length and percentage of the relevant intersections logged.	All holes logged for the entire length of hole.		
Sub-sampling techniques and	If core, whether cut or sawn and whether quarter, half or all core taken.	• N/A		
sample preparation	If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.	Samples are not split. Samples are taken by representative scoop into a composite 4m sample, with smaller composites taken at the end of hole. Samples are taken regardless of wet or dry, but moisture content is noted in logs.		
	For all sample types, the nature, quality and appropriateness of the sample preparation technique.	 The entire ~3kg RC sample is pulverized to 75µm (85% passing). This is considered best practice and is standard throughout the industry. 		
	Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.	Pulp duplicates taken at the pulverising stage and selective repeats conducted at the laboratories discretion.		
	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.	No duplicates taken.		
	Whether sample sizes are appropriate to the grain size of the material being sampled.	Sample size appropriate for grain size of samples material.		
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.	Aqua-regia digest with ICP-MS finish is considered an industry standard technique and is considered appropriate for gold.		
	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.	Magnetic susceptibility measurements are taken on each 1m interval downhole		

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Criteria	JORC Code explanation	Commentary
	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.	 Certified reference material standards, 1 in 50 samples. Blanks: A lab barren quartz flush is requested following a predicted high grade sample (i.e. visible gold). Lab: Random pulp duplicates are taken on average 1 in every 10 samples. Accuracy and precision levels have been determined to be satisfactory after analysis of these QAQC samples.
Verification of sampling and assaying	The verification of significant intersections by either independent or alternative company personnel.	 All sampling is routinely inspected by senior geological staff. Significant intersections are inspected by senior geological staff and/or DRM corporate staff.
	The use of twinned holes.	 No twinned holes were drilled during this drill program.
	Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.	 DRM data is hard keyed into LogChief data capture software and synchronized with Datashed SQL based database on internal company server. Data is validated by DRM Database Administrator, import validation protocols in place. Visual checks of data is completed within Micromine or Surpac software by company geologists.
	Discuss any adjustment to assay data.	No adjustments made to 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.	 Collars: surveyed with GPS with expected relative accuracy of approximately 5m. Downhole: no downhole surveys taken. Collar setup is checked by the supervising geologist upon commencement of each hole.
	Specification of the grid system used.	Holes are located in MGA Zone 51.
	Quality and adequacy of topographic control.	Estimated RLs were assigned during drilling and are to be corrected at a later stage.
Data spacing and distribution	Data spacing for reporting of Exploration Results.	Holes the subject of this announcement were drilled on a collar spacing of 100m on section, with sections spaced 1-200m along strike. Some infill drilling was carried out on 50m hole spacing on lines at Big Kahuna, around anomalous drill holes.
	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.	Mineralisation at Horse Well northern 'Dawn' prospects has not yet been demonstrated to be sufficient in both geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications to be applied.
	Whether sample compositing has been applied.	Samples taken on a 4m composite basis. Smaller composites taken at the end of hole where remaining samples are less than 4m.

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Criteria	JORC Code explanation	Commentary
Orientation of data in relation to geological	Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.	Based on the current information at Horse Well, the drilling is designed to be approximately perpendicular to the strike of the target structure.
structure	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.	No sampling bias resulting from a structural orientation is known to occur at Horse Well at this stage.
Sample security	The measures taken to ensure sample security.	All samples are selected and bagged in a tied numbered calico bag, grouped into larger polyweave bags and cable tied. Polyweave bags are placed into larger Bulky Bags with a sample submission sheet and tied shut. Consignment note and delivery address details are written on the side of the bag and delivered to Toll in Wiluna. The bags are delivered directly to MinAnalytical in Canning Vale, WA who are NATA accredited for compliance with ISO/IEC17025:2005.
Audits or reviews	The results of any audits or reviews of sampling techniques and data.	Performance meetings held between a DRM and MinAnalytical representative are conducted monthly. QAQC data are reviewed with each assay batch returned, and on regular monthly intervals (trend analysis).

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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. 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. 	 The Horse Well Project is located within Exploration Licenses E69/1772, E53/1466, E53/1471, P53/1524, P53/1525, P53/1526, E69/2765, E69/3069, E69/2492 and E69/2820. The Horse Well Project is covered by a farm-in and JV agreement between Doray and Alloy Resources Ltd. During the Dec FY15 quarter, Doray earned 60% of the tenements (except for E69/2820 where it earned 48%), with Doray able to earn a maximum 80% interest, except for E69/2820, where Doray earning up to 64%. The tenement E69/2492 is subject to 2.0% Net Smelter Royalty to Wayne Jones. Joint Venture partner Alloy has elected to contribute to and maintain its 40% interest. The Project is contained completely within land where the Wiluna People have been determined to hold native title rights. No historical, archaeological, ethnographic or environmentally sensitive sites have been identified in the area of work.
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	Exploration prior to Alloy in the region was minimal and limited to shallow RAB and air-core drilling completed in the mid – 1990s, all of which had been sampled, assayed, and logged and records held by the Company. This early work, including aeromagnetic data interpretation, was focused on gold and provided anomalous samples which have formed the basis for current exploration.
Geology	Deposit type, geological setting and style of mineralisation.	Horse Well is an Archean aged gold project with common host rocks and structures related to mesothermal orogenic gold mineralisation as found throughout the Yilgarn Craton of Western Australia.
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: 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 	Refer to tabulations in the body of this announcement and previous releases by Alloy Resources and Doray Minerals between 2013 and 2016.

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Criteria	JORC Code explanation	Commentary
	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. 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. 	 No top-cuts have been applied when reporting results. The primary gold determination is reported where any secondary assaying does not differ significantly from the primary. The intervals referred to in this announcement are taken as values > 1m @ 0.1 g/t Au with a maximum of 2m internal dilution (< 0.1g/t Au). No metal equivalent values are used for reporting exploration results.
Relationship between mineralisation widths and intercept lengths	 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. 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'). 	The geometry of the mineralisation is not yet known due to insufficient density of drilling in the targeted areas. Broad geological and mineralisation features have been interpreted from generally wide spaced drilling sections. As such, the down-hole true width length is not known with any certainty.
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 body of this announcement.
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.	All significant intercepts and summary of drill hole assay information are presented in the appendix to this announcement. Representative higher grade intervals have been presented in the section and plan.
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. 	 All meaningful and material information has been included in the body of the text No metallurgical assessments have been completed at the date of this report.
Further work	 The nature and scale of planned further work (eg 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. 	Infill aircore drilling of the anomalies is being planned and is likely to commence in the next quarter. Follow-up RC drilling has not been confirmed or planned by the manager.

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