

19 February 2018

Company Announcement Officer
ASX Limited
Exchange Centre
20 Bridge Street
SYDNEY NSW 2000

DEEP DRILLING INTERSECTS PROSPECTIVE FELSIC PORPHYRY FOR FIRST TIME AT BOWDENS

Potential Source of Bowdens mineralisation located to the northwest of the current resource.

Highlights

- **Significant discovery of porphyritic felsic intrusion beneath the large-scale Bowdens silver-zinc-lead deposit.**
- **The intrusion is associated with strong metal zonation consistent with potential porphyry associated gold-copper mineralisation.**
- **The Bundarra Deeps mineralisation vectoring towards this area is defined by:**
 - A thick zone of highly anomalous base metal and gold mineralisation that is currently defined over a strike length of 500 metres and has a thickness of up to some 300 metres. Previously reported results include:
 - **315.2 metres @ 0.70% zinc, 0.41% lead and 26g/t silver from 96 metres.**
 - Thick high-grade lenses of massive and stringer sulphides up to 30 metres thick that are likely controlled by feeder structures. Previously reported results include:
 - **31.25 metres @ 3.24% zinc, 1.88% lead, 23g/t silver and 0.4g/t gold.**
- **The mineralised system is interpreted to be vectoring to the northwest and remains totally open along strike and down-dip.**
- **Preliminary deep drilling campaign completed with final assays pending.**

Silver Mines Managing Director, Anthony McClure, said: *"This is a major milestone in developing our understanding of this major mineral system. It is a real credit to the geological team. Much of the exploration work over the last 18 months has been directed towards developing a porphyry model – it is very exciting for the Company that this is the first time porphyritic felsic intrusive rocks have been intersected at the project.*

While we are still to locate the core of the system, recent work suggests it is located further to the northwest. The presence of gold, copper and molybdenum that is increasing in this area is highly encouraging and provides a strong platform for the next stage of exploration."

Search for the Bowdens Silver Source Porphyry Intrusion

The Bowdens Silver Deposit has emerged as a large-scale Middle Permian aged precious and base metal epithermal system. A common characteristic of epithermal systems around the world is the association of a proximal heat-source (source) which commonly takes the form of a magmatic intrusion / porphyry. Importantly, these sources can be significantly mineralised with gold, copper and molybdenum.

The recently completed deep drilling campaign has provided a platform to both significantly extend the Bundarra Deeps zone and to provide valuable geological data to allow exploration to be vectored towards the source of the mineralisation.

The results of this work has identified that the likely source of the mineralised system is located to the northwest of the current mineral resource. This understanding is based on:

- The intersection of felsic to dacitic porphyry dykes, interpreted to be extensions of a larger intrusion, in the deepest and northern most holes (Figure 1.);



Figure 1. Porphyritic felsic intrusion in drill hole BRD17095.

- Identification of a major northwest-southeast extensional structural corridor through interpretation of detailed structural data and airborne-magnetic data (Figure 2.);
- The presence of the highest-grade silver-zinc-lead mineralisation at depth down plunge of the north margin of the Bowdens Silver resource;
- A distinct geochemical zonation with increasing zinc and gold with depth along with background copper (at Bundarra Deeps);
- Bonanza drill results including 7 metres at 555g/t silver-equivalent in the Company's recent northern most drilling;
- Highly anomalous molybdenum content to the north west of Bowdens (high level indicator in mineralised porphyry systems); and
- The location of a regional gravity low immediately north and northwest of the Bowdens Silver resource, considered to represent an underlying magmatic system.

The new insights provide the Company with increasing confidence for a significant porphyry related body located proximal to Bowdens Silver. It is important to note that elsewhere in New South Wales, zones of northwest extension are coincident with major deposits including the Cadia Valley Operations located near Orange (>9 million tonnes of copper, >40 million ounces of gold).

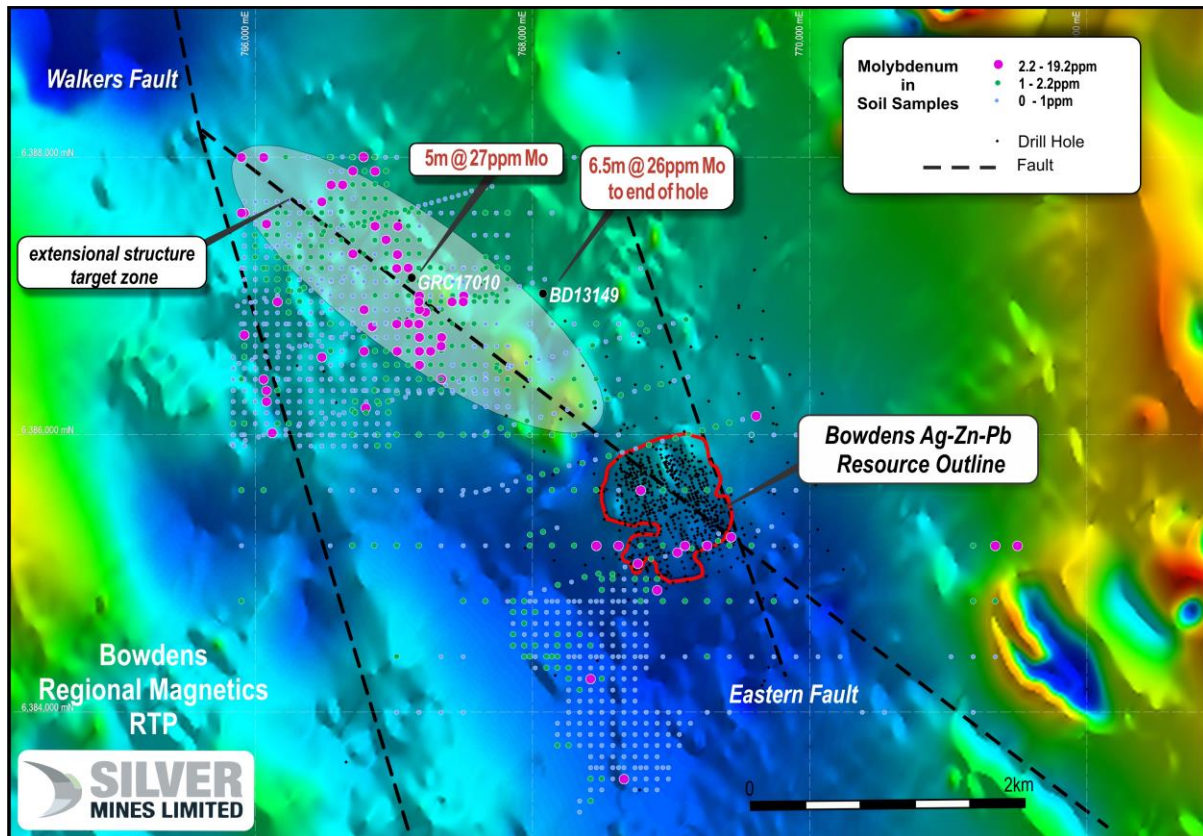


Figure 2. Plan view over RTP magnetics highlighting the location of Bowdens and the northwest exploration target area.

Bundarra Deeps: BRD17095

The Company has completed the fourth and final preliminary reverse circulation ('RC') pre-collared diamond core hole (BRD17095) of the current program. Assay results from 0 to 417 metres were reported to the ASX on 5th February 2018 while assays for the remainder of the hole remain pending.

The Bundarra Deeps mineralisation occurs as an extensive, stockwork vein hosted, moderately west dipping body of base-metal dominant mineralisation above the Eastern Fault which encompasses smaller, tabular, gently west dipping zones of semi-to massive base metal mineralised horizons. The Bundarra Deeps mineralised zone has been defined over a 500 metre strike length and remains open down dip and north along strike. Mineralised thicknesses are up to 300 metres with higher grade lenses of approximately 20 metres thickness.

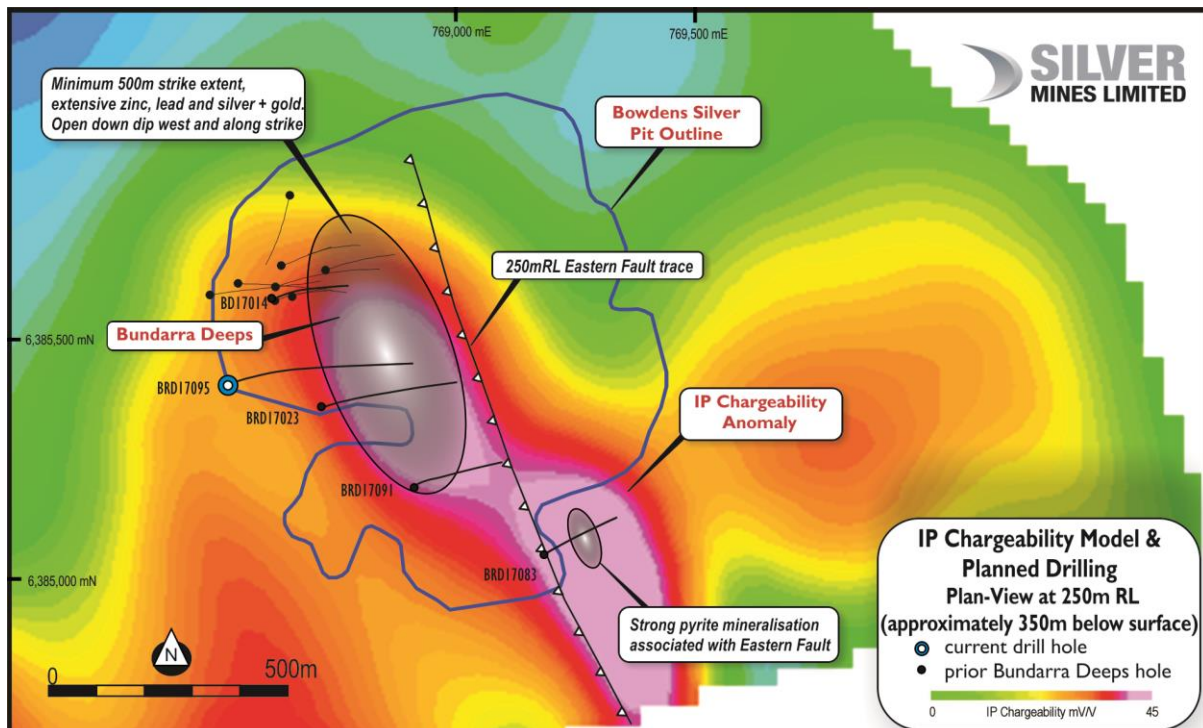


Figure 3. Plan view slice of IP chargeability anomaly at 250mRL (approximately 350 metres below surface) and the planned drilling program.

Previous announced drilling results at Bundarra Deeps recorded intercepts including;

- 31.25 metres @ 3.24% zinc, 1.88% lead, 23g/t silver and 0.4g/t gold (218g/t Ag Eq.) from 283.75 metres (including);
- 18.25 metres @ 4.6% zinc, 3.0% lead, 31g/t silver and 0.52g/t gold (313g/t Ag Eq.) from 283.75 metres;
- 315.2 metres @ 0.70% zinc, 0.41% lead, 26g/t silver (63g/t Ag Eq.) from 96 metres.

For further information please refer to ASX release of 15th March 2017, 12th May 2017 and 7th June 2017.

The final hole of the current preliminary program, BRD17095, was completed to a depth of 730 metres, the deepest to date across the Bowdens Silver Project Area.

Of particular interest is the discovery of two porphyritic felsic dyke intrusion zones. The first zone higher in the hole from 263 to 277 metres depth hosts overprinting weak silver-zinc-lead-gold mineralisation. The porphyritic felsic intrusive zone from 685 to 719 metres depth is pyrite rich and lies sub-parallel to a 110 metre elevated mineralised zone from 460 metres depth exhibiting sphalerite (zinc sulphide) along with a visible increase in chalcopyrite (copper iron sulphide) over galena (lead sulphide). Refer to ASX release of 5th February 2018. Assays are pending from 417 metres down hole. (Figure 4.).

The porphyritic intrusion zones discovered in hole BRD17095 are considered to be potentially representative of a much larger intrusive system in the vicinity further towards the north west and at depth.

With the completion of the preliminary drilling program in the Bundarra Deeps area and once final assays are received and collated, further details will be provided on the continuing assessment program.

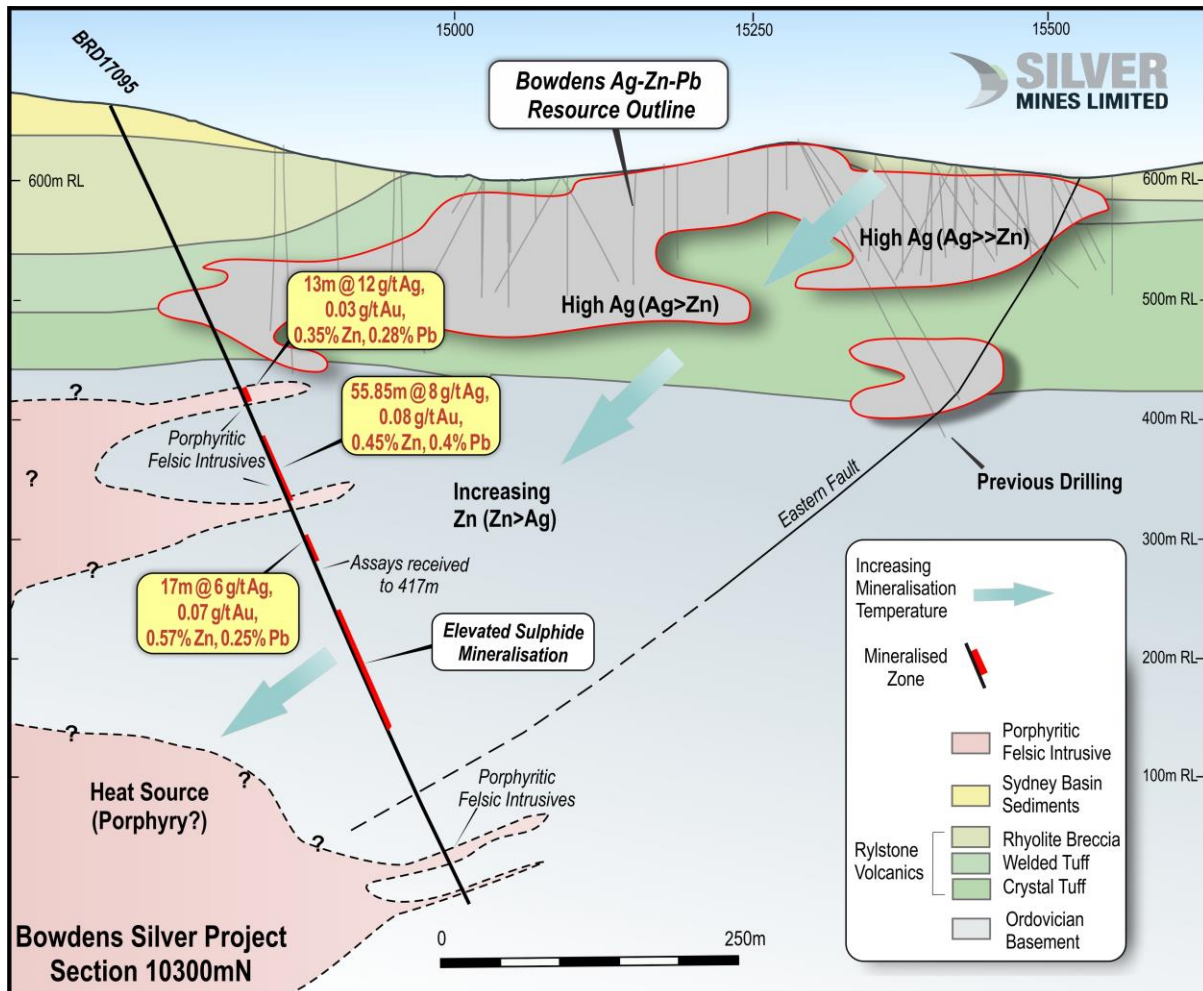


Figure 4. Cross Section of BRD17095 highlighting generalised metal zonation.

About Silver Mines Limited

The Silver Mines strategy has been to consolidate quality silver deposits in New South Wales and to form Australia's pre-eminent silver company.

The Company's goal is to provide exceptional returns to shareholders through the acquisition, exploration and development of quality silver projects and by maximising leverage to an accretive silver price.

Competent Persons Statement

The information in this report that relates to mineral exploration results is based on information compiled or reviewed by Mr Scott Munro who is a full-time employee of the company. Mr Munro is a member of the Australian Institute of Geoscientists (AIG) and 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' (JORC code). Mr Munro consents to the inclusion in this report of the matters based on the information in the form and context in which it appears.

Appendix 1 Drill Hole Details

Hole ID	GDA94 East	GDA94 North	RL	Dip	Azimuth (mag)	EOH (m)	Comment
BRD17023	768708	6385345	614	-65	62	600	assays received
BRD17083	769161	6385037	628	-77	45.5	460	assays received
BRD17091	768895	6385182	599	-71	52.5	501	assays received
BRD17095	768515	6385393	663	-65	55	730	Part assays

JORC Code, 2012 Edition – ANNEXURE 1

Section 1 Sampling Techniques and Data

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

Criteria	JORC Code explanation	Commentary
Sampling techniques	<ul style="list-style-type: none"> <i>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.</i> <i>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</i> <i>Aspects of the determination of mineralisation that are Material to the Public Report.</i> <i>In cases where ‘industry standard’ work has been done this would be relatively simple (e.g. ‘reverse circulation drilling was used to obtain 1m samples from which 3kg 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.</i> 	<ul style="list-style-type: none"> Sampling taken from NQ diamond core and from reverse circulation (RC) drill chips. NQ size core - all samples taken as nominal 1 metre intervals from half-cut core and from the same side of the core. RC samples collected on a 1m interval from a cone splitter. Each sample represents approximately 2 kilograms of material Each sample was sent for multi-element assay using ICP techniques with the entire sample pulverized and homogenized with a 50g extract taken for assay. Assays are considered representative of the sample collected.
Drilling techniques	<ul style="list-style-type: none"> <i>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).</i> 	<ul style="list-style-type: none"> Diamond drilling undertaken using HQ & NQ diamond core rig with standard tube. All core, where unbroken ground allows, is oriented by drilling team and an orientation line along the base of the hole. RC drilling using a 139mm hammer.

Criteria	JORC Code explanation	Commentary
<i>Drill sample recovery</i>	<ul style="list-style-type: none"> <i>Method of recording and assessing core and chip sample recoveries and results assessed.</i> <i>Measures taken to maximise sample recovery and ensure representative nature of the samples.</i> <i>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.</i> 	<ul style="list-style-type: none"> Core recovery is estimated at greater than 95%. Some zones (less than 10%) were broken core with occasional clay zones where some sample loss may have occurred. However, this is not considered to have materially affected the results. RC samples are weighed for each metre and assessed for recovery, contamination and effect of water if present. No significant relationship between sample recovery and grade exists.
<i>Logging</i>	<ul style="list-style-type: none"> <i>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.</i> <i>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</i> <i>The total length and percentage of the relevant intersections logged.</i> 	<ul style="list-style-type: none"> All diamond holes are logged using lithology, alteration, veining, mineralization and structure including geotechnical structure. RC chip samples are logged using lithology, alteration, veining and mineralization. All core and chip trays are photographed using both wet and dry photography. In all cases the entire hole is logged by a geologist.
<i>Sub-sampling techniques and sample preparation</i>	<ul style="list-style-type: none"> <i>If core, whether cut or sawn and whether quarter, half or all core were taken.</i> <i>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</i> <i>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</i> <i>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</i> <i>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.</i> <i>Whether sample sizes are appropriate to the grain size of the material being sampled.</i> 	<ul style="list-style-type: none"> Minor selective sub-sampling based on geology to a maximum size of 1.3m and a minimum of 0.3m. All core is cut using a Corewise core saw with core rotated 10 degrees to the orientation line to preserve the orientation for future reference. The half (NQ) of the core without the orientation line is removed, bagged and sent to the laboratory for assay. Sample sizes are considered appropriate for the rock type, style of mineralisation, the thickness and consistency of the intersections and assay ranges expected at Bowdens. RC samples are collected from a cone splitter at a 6% split. The cyclone/splitter system is checked periodically throughout each hole and cleaned when necessary. To assess the representation of material sampled a duplicate 6% split sample is collected from a secondary sample chute on the opposite side of the cone splitter at the rate of 1/20.
<i>Quality of assay data</i>	<ul style="list-style-type: none"> <i>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is</i> 	<ul style="list-style-type: none"> Samples dispatched to ALS Global laboratories in Orange NSW for sample preparation and gold analysis Au-AA25. 33 multi-element

Criteria	JORC Code explanation	Commentary
<i>and laboratory tests</i>	<p><i>considered partial or total.</i></p> <ul style="list-style-type: none"> <i>For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibration factors applied and their derivation, etc.</i> <i>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.</i> 	<p>analysis completed at ALS Brisbane using method ME-ICP61.</p> <ul style="list-style-type: none"> Site Standards are inserted every 20 samples to check quality control and laboratory standards and blanks every 25 samples to further check results.
<i>Verification of sampling and assaying</i>	<ul style="list-style-type: none"> <i>The verification of significant intersections by either independent or alternative company personnel.</i> <i>The use of twinned holes.</i> <i>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</i> <i>Discuss any adjustment to assay data.</i> 	<ul style="list-style-type: none"> Significant intersections calculated by site-geologists. All geological logging is entered digitally before inputting into a Maxwell Geoservices database schema. Primary assay data is sent electronically from the lab to the SVL database administrator and then entered into the geological database for validation. All assays matched with the logging sheets and loaded directly from the output provided by the laboratory with no manual entry of assays undertaken. No adjustments were made or required to be made to the assay data.
<i>Location of data points</i>	<ul style="list-style-type: none"> <i>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.</i> <i>Specification of the grid system used.</i> <i>Quality and adequacy of topographic control.</i> 	<ul style="list-style-type: none"> The collar position is initially surveyed using hand-held GPS with accuracy of +/- 5 metres. Periodically, Real Time Kinetic by VRS Now surveys are conducted with accuracy of +/-1cm. Down hole surveys collected every 30 metres using an electronic downhole reflex survey camera. The terrain includes steep hills and ridges and with a topographical model of 0.034 metre accuracy. All collars recorded in MGA94 zone 55 and also re-projected to a locally defined mine-grid system.
<i>Data spacing and distribution</i>	<ul style="list-style-type: none"> <i>Data spacing for reporting of Exploration Results.</i> <i>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.</i> <i>Whether sample compositing has been applied.</i> 	<ul style="list-style-type: none"> This drilling is designed as preliminary exploration targeting a geophysically derived induced polarization chargeability model on approximate 200m spaced sections.

Criteria	JORC Code explanation	Commentary
<i>Orientation of data in relation to geological structure</i>	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> Drill orientation was designed to intersect the projection of breccia zones and zones of veins within an overall mineralized envelope. An interpretation of the mineralization has indicated that no sampling bias has been introduced.
<i>Sample security</i>	<ul style="list-style-type: none"> The measures taken to ensure sample security. 	<ul style="list-style-type: none"> All samples bagged on site under the supervision of two senior geologists with sample bags tied with cable ties before being driven by site personnel to the laboratory in Orange, NSW (~200km from the site)
<i>Audits or reviews</i>	<ul style="list-style-type: none"> The results of any audits or reviews of sampling techniques and data. 	<ul style="list-style-type: none"> The drilling campaign and drill work includes on-going internal auditing with advice taken on process from external advisors.

Section 2 Reporting of Exploration Results

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

Criteria	JORC Code explanation	Commentary
<i>Mineral tenement and land tenure status</i>	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> The Bowdens Resource is located wholly within Exploration Licence No EL5920, held wholly by Silver Mines Limited and is located approximately 26km east of Mudgee, New South Wales. The tenement is in good standing. The project has a 2.0% Net Smelter Royalty which reduces to 1.0% after the payment of US\$5 million over 100% of the EL5920. The project has a 1.85% Gross Royalty over 100% of EL5920.
<i>Exploration done by other parties</i>	<ul style="list-style-type: none"> Acknowledgment and appraisal of exploration by other parties. 	<ul style="list-style-type: none"> The Bowdens project was previously managed by Kingsgate Consolidated and Silver Standard Ltd, however the new drilling reported under this table is based on work conducted solely by Silver Mines/Bowdens Silver.
<i>Geology</i>	<ul style="list-style-type: none"> Deposit type, geological setting and style of mineralisation. 	<ul style="list-style-type: none"> The Bowdens Deposit is a low sulphidation epithermal base-metal and silver system hosted in Permian Volcanic rocks. Mineralisation includes veins, shear veins and breccia zones within

Criteria	JORC Code explanation	Commentary
		<p>tuff and ignimbrite rocks.</p> <ul style="list-style-type: none"> Mineralisation is overall shallowly dipping (~15 degrees to the north) with high-grade zones preferentially following a volcanic dome. There are several vein orientations within the broader mineralized zones including some areas of stock-work veins.
Drill hole Information	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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; and 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. 	<ul style="list-style-type: none"> All information is included in Appendix 1 of this report.
Data aggregation methods	<ul style="list-style-type: none"> 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. 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. 	<ul style="list-style-type: none"> Intersection calculations based weighted averages on; 0.5% combined lead + zinc cut-off for low grade results, 1% combined lead + zinc cut-off for higher-grade results or a 2% combined lead + zinc cut-off for high-grade results.
Relationship between mineralisation widths and intercept lengths	<ul style="list-style-type: none"> 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 (e.g. 'down hole length, true width not known'). 	<ul style="list-style-type: none"> Mineralisation is both stratabound and vein hosted. The stratigraphy dips moderately to the north while the majority of mineralised veins dip west. Some individual veins intersected were sub-parallel (~10 degrees to core axes). The drilling width is estimated to be 120% of true-width for stratabound mineralisation.

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<i>Diagrams</i>	<ul style="list-style-type: none"> <i>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.</i> 	<ul style="list-style-type: none"> Maps and cross-sections provided in the body of this report.
<i>Balanced reporting</i>	<ul style="list-style-type: none"> <i>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.</i> 	<ul style="list-style-type: none"> All results received and compiled to date are reported in this release. Drilling is ongoing with further results expected to provide a more detailed assessment of the mineralised zones.
<i>Other substantive exploration data</i>	<ul style="list-style-type: none"> <i>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 and potential deleterious or contaminating substances.</i> 	<ul style="list-style-type: none"> This report relates to drill data reported from this program.
<i>Further work</i>	<ul style="list-style-type: none"> <i>The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).</i> <i>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</i> 	<ul style="list-style-type: none"> This report relates to a drill program that is designed to test a geophysical induced polarization chargeability target. Drilling is ongoing with further results pending.