

## ASX ANNOUNCEMENT

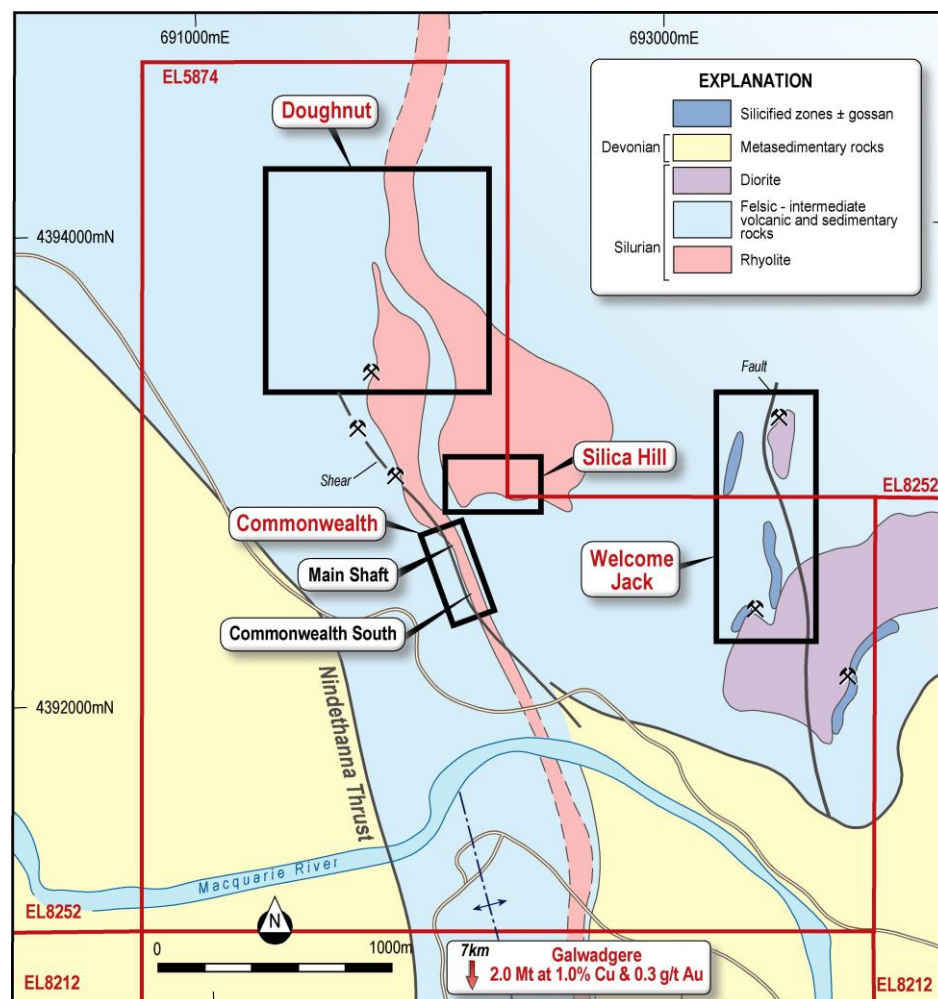
Date: 13 April 2018

Number: 580/130418

## NEW DRILL TARGETS ALONG THE WELCOME JACK TREND, COMMONWEALTH PROJECT, NEW SOUTH WALES

New drill and rock chip assays together with an interpretation of ground gravity data have identified new drill targets along the Welcome Jack Trend, located 1.5 kilometres east of the Commonwealth-Silica Hill area at Impact Minerals Limited's (ASX:IPT) 100%-owned Commonwealth Project, 100 km north of Orange in New South Wales (Figure 1).

These drill targets will be tested as part of an upcoming drill programme that will also follow up exceptional gold and silver results recently returned from the Silica Hill Prospect (see announcement dated [13<sup>th</sup> February 2018](#)). The drill programme should commence by late June subject to approvals.



**Figure 1.** Geology and location of key prospects in the Commonwealth-Silica Hill-Welcome Jack area.

## New Results

The new assay results demonstrate high grade gold and silver is associated with barite (barium sulphate) and linear zones of silicification over a strike length of at least 2,000 metres along the Welcome Jack Trend. In the south these zones occur around the margins of a diorite intrusion exposed at surface (Figure 2).

Impact has previously shown that barite is an important pathfinder element for the exploration model proposed for the Commonwealth project but is costly to assay for and not done routinely (see Discussion below and announcement dated [31st May 2017](#)).

Key results include (Figure 2):

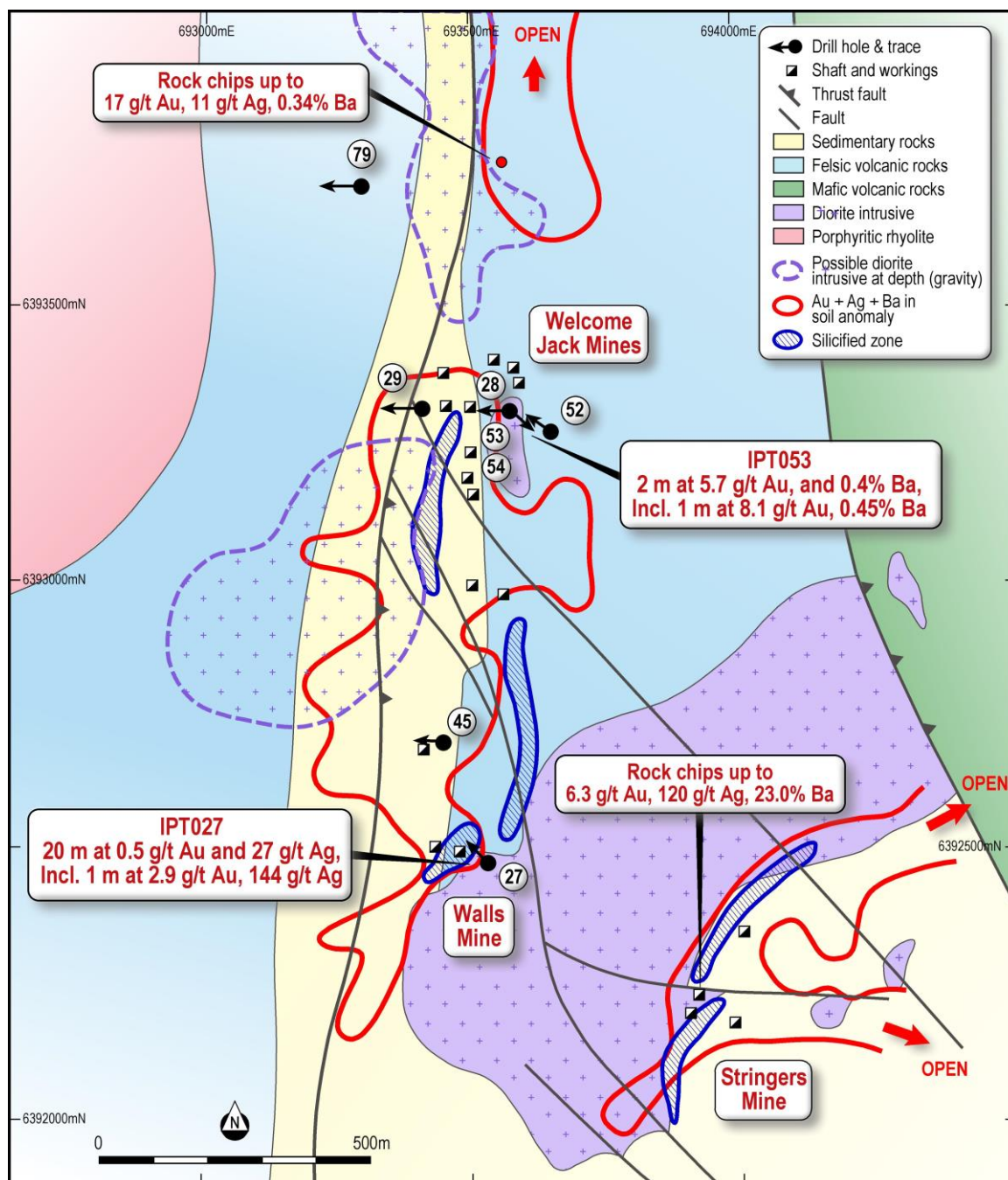
- In Impact's 2017 drill programme, drill hole **CMIPT053** was drilled under old gold workings at the Welcome Jack Prospect and returned:  
**2 metres at 5.7 g/t gold and 0.4% barium** from 28 metres down hole *including*  
**1 metre at 8 g/t gold and 0.45% barium** from 29 metres.
- A rock chip sample taken 700 metres north of CMIPT053 returned:  
**17.0 g/t gold, 11 g/t silver and 0.34% barium.** This area has not been drilled.
- At the Walls Prospect 800 m to the south of Welcome Jack a 20 metre thick silver-gold zone was discovered in CMIPT027 (see announcement dated [30th June 2016](#)). New re-assays of two anomalous samples for barium within this zone returned:  
**1 m at 2.9 g/t gold, 144 g/t silver and 0.2% barium and**  
**1 m at 1.0 g/t gold, 46 g/t silver and 0.8% barium** within the thicker zone of  
**20 m at 0.5 g/t gold and 27 g/t silver from 55 metres.**
- At the Stringers Prospect located 500 metres south of the Walls Prospect, rock chips returned up to **6.3 g/t gold and 120 g/t silver** associated with massive barite with assays of up to **23.0% barium.**

All of these results are associated with large and extensive gold-silver-barium-in-soil anomalies, which at Walls and Stringers occur around the margins of the diorite intrusion (Figure 2).

Images of previously collected ground gravity data show that the diorite, and particularly the western half, is characterised by a gravity high (Figures 2 and 3). An outcrop of similar diorite is also associated with the edge of a gravity high at Welcome Jack and is also adjacent to one of the gold-silver-barium-in-soil anomalies (Figures 2 and 3).

This association suggests gravity highs along the Welcome Jack Trend may represent buried but relatively near surface diorites.

Two other gravity highs with strong gold-silver-barium-in soil anomalies along their margins are also readily identifiable in the data (Figure 3). The gravity highs are interpreted as potential buried intrusions and accordingly these areas are attractive drill targets for high grade gold, silver and barite preserved at depth. Impact proposes to drill these priority targets in the upcoming drill season

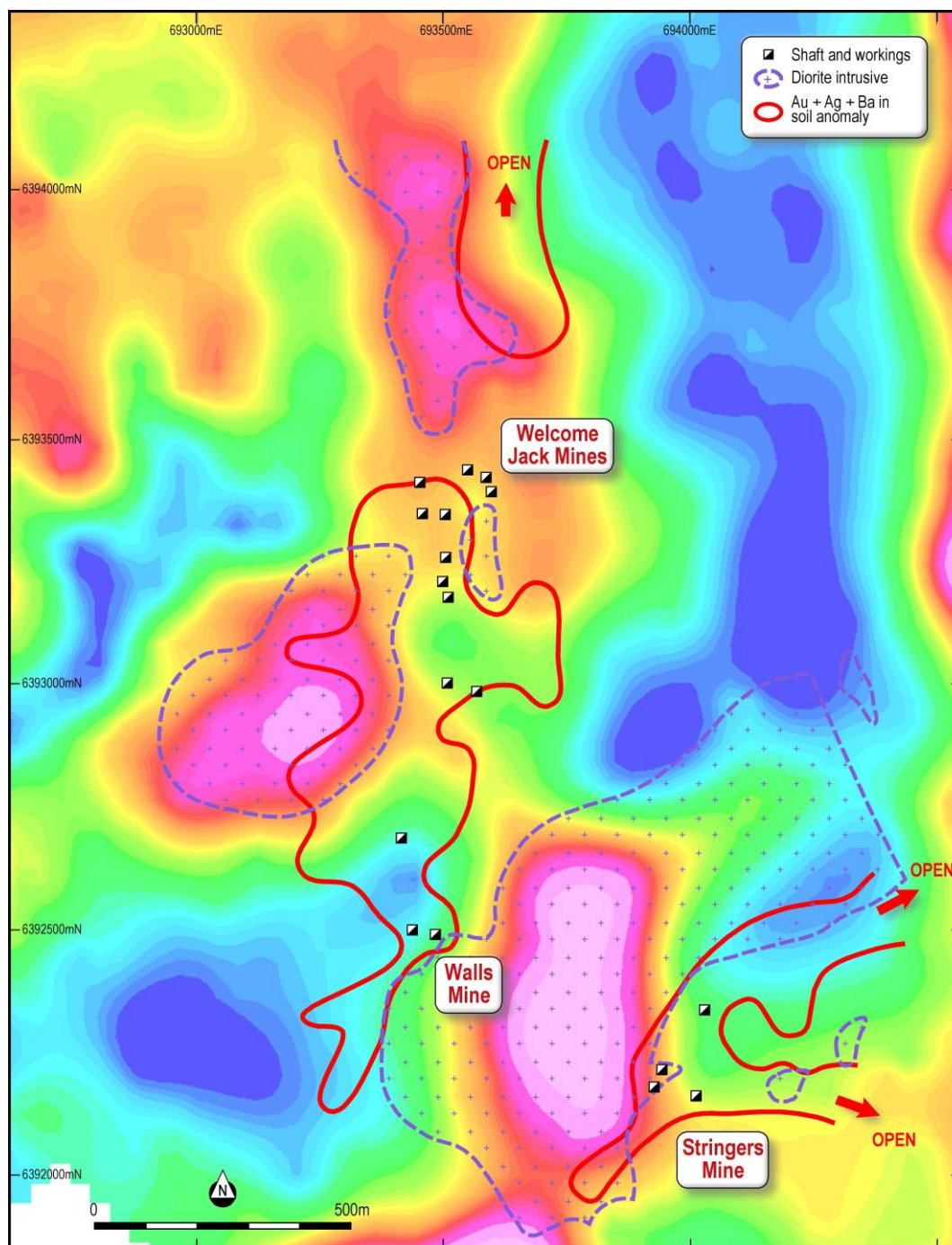


**Figure 2.** Geology and key exploration results along the Welcome Jack Trend.

## Discussion

Impact has previously shown that barite is an important pathfinder element for the exploration model proposed for the Commonwealth project; that is, gold-rich volcanogenic massive sulphide mineralisation similar to the Eskay Creek deposit in British Columbia (>3 million ounces of gold and 180 million ounces of silver;) and potentially underlain by a porphyry copper-gold system (Figure 4 and see announcement dated [31st May 2017](#)) .





**Figure 3.** Image of ground gravity data along the Welcome Jack Trend

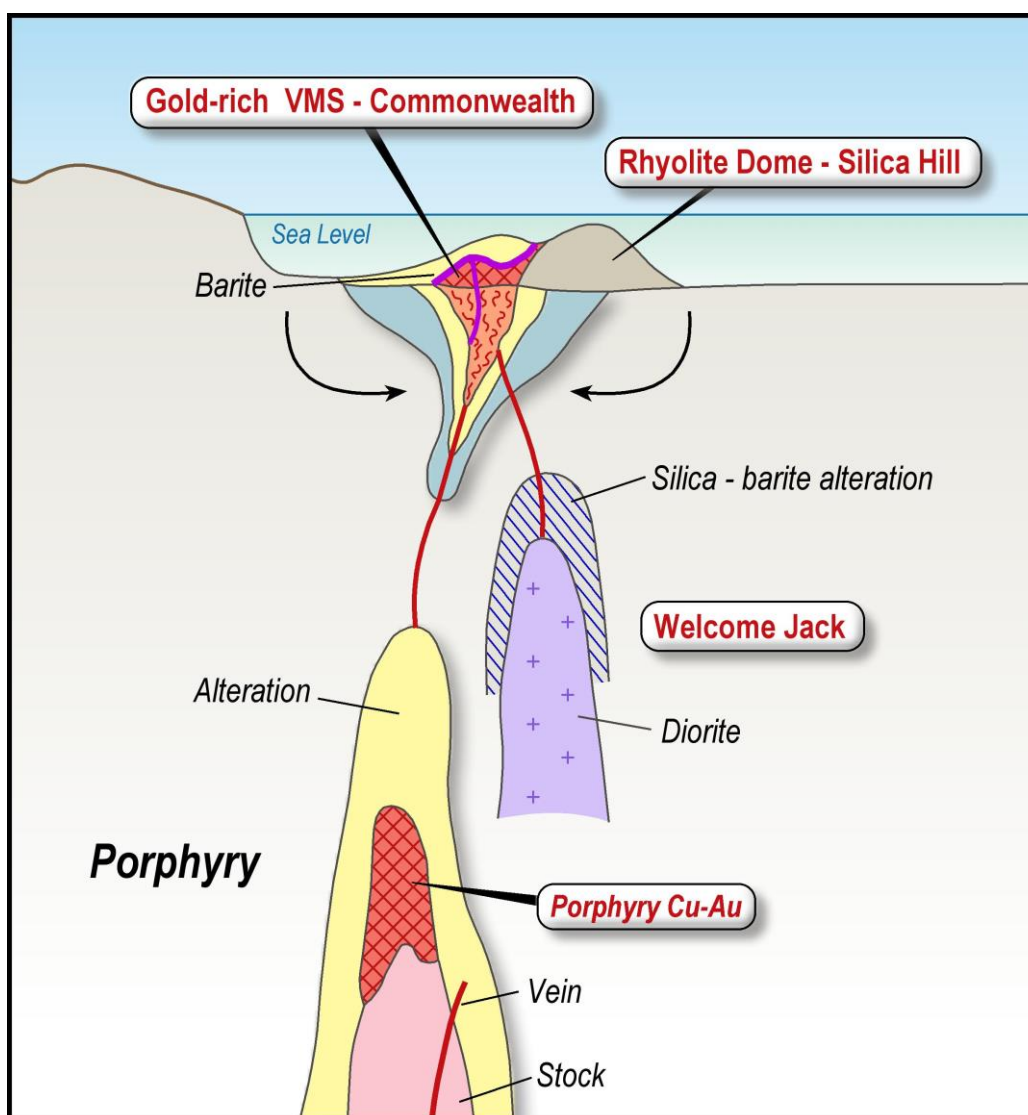
For example barite is intimately associated with the massive sulphide deposit at Main Shaft (Figure 1) where a key drill result was returned from CMIPT031 of:

**7 metres at 6.3 g/t gold, 496 g/t silver (15.9 ounces), 7.2% zinc, 2.9% lead and 9.0% barium from 91 metres including 3 metres at 10.6 g/t gold, 571 g/t silver (18.4 ounces) 7.8% zinc, 2.1% lead and 14.9% barium.**

Unfortunately high levels of barium (>3,000 ppm) can only be assayed accurately at high levels by a costly X-Ray Fusion analysis. Accordingly barium assays are not done routinely on drill core and only selected samples, including those reported above, were chosen to ascertain the likely distribution of barium along the Welcome Jack Trend.

The fact that every sample assayed along the Trend returned high levels of barium is considered to be very encouraging for further exploration.

In addition it is possible that the diorites are part of an intrusive complex interpreted to underlie and be driving the entire mineralised system at Commonwealth-Silica Hill-Welcome Jack. This is a key feature of the model proposed by Impact for the area which suggests that such an intrusive complex may contain a porphyry copper-gold deposit at depth similar to Cadia-Ridgeway and North Parkes (see announcement [31 July 2017](#) and Figure 4).



**Figure 4.** Proposed exploration model for Commonwealth-Silica Hill-Welcome Jack.

## **Next Steps**

All of Impact's work indicates that the mineralised system in the entire Commonwealth-Silica Hill-Welcome Jack Trend is part of one very large system covering at least 5 sq km in area. In all likelihood the mineralisation at the different locations is connected and may represent different parts of an obliquely exposed, vertically zoned system (Figure 4).

Large areas of this system remain untested by drilling and it is evident that there is significant exploration upside in the area.

The nature of the mineralisation at Silica Hill with the extensive visible silver minerals proustite and pyrargyrite is unique in Australia. Therefore a detailed review and synthesis of all the drill hole data including assays, hand held XRF data and geological and structural data has been completed and the next round of drill targets has been identified.

The next drill programme will commence as soon as practicable and hopefully before the end of June. Statutory approvals for new drill pads have been lodged and negotiations have progressed to extend the Land Access Agreement with the main land holder at Commonwealth-Silica Hill.

## **Dr Michael G Jones Managing Director**

*The review of exploration activities and results contained in this report is based on information compiled by Dr Mike Jones, a Member of the Australian Institute of Geoscientists. He is a director of the company and works for Impact Minerals Limited. He has sufficient experience which is relevant to the style of mineralisation and types of deposits under consideration and to the activity which he is 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 (the JORC Code). Dr Jones has consented to the inclusion in the report of the matters based on his information in the form and context in which it appears.*

*Impact Minerals confirms that it is not aware of any new information or data that materially affects the information included in the previous market announcements referred to and in the case of mineral resource estimates, that all material assumptions and technical parameters underpinning the estimates continue to apply and have not materially changed.*

## SIGNIFICANT ASSAYS (see also [Quarterly Report December 2017](#))

Hole Id	From	To	Interval	Au	Ag	Zn	Pb	Cu	Cutoff
				ppm	ppm	ppm	ppm	ppm	
CMIPT073	75	150.3	75.3	0.35	62	NSA	NSA	NSA	0.1 g/t Au, 10 g/t Ag
<i>including</i>	134	145	10.8	1.45	243	2625	1360	NSA	1 g/t Au Cutoff
<i>including</i>	134	138.5	4.3	2.00	566	4731	2041	NSA	1 g/t Au Cutoff
<i>including</i>	136	136.47	0.32	6.88	1485	8100	4100	NSA	5 g/t Au Cutoff
CMIPT074	138	159.7	21.8	0.58	273	1742	988	NSA	0.1 g/t Au, 10 g/t Ag
<i>including</i>	143	143.05	0.5	0.55	1485	3020	1985	NSA	1 g/t Au Cutoff
<i>including</i>	149	149.2	0.7	1.40	4119	6082	5262	NSA	1000 g/t Ag Cutoff
<i>including</i>	148.5	148.88	0.38	1.64	6240	7770	7110	NSA	2000 g/t Ag Cutoff
<i>including</i>	156	159.7	3.4	1.6	25	5083	3025	NSA	1 g/t Au Cutoff
CMIPT075									*Drilling Error Hole
CMIPT076									*Drilling Error Hole
CMIPT077	167	189.2	22.5	1.73	276	2208	1446	NSA	0.1 g/t Au, 10 g/t Ag
<i>including</i>	167	168.2	0.8	0.72	1070	2740	1290	NSA	1000 g/t Au Cutoff
<i>also including</i>	174	175.25	0.82	1.24	2810	4813	4034	NSA	1000 g/t Au Cutoff
<i>also including</i>	174.43	174.72	0.29	1.83	4200	6920	4830	356	2000 g/t Au Cutoff
<i>also including</i>	184	188.5	4.15	5.56	153	7746	5506	NSA	5 g/t Au Cutoff
<i>including</i>	184	184.55	0.2	11.55	601	17600	6850	375	10 g/t Au Cutoff
<i>also including</i>	188	188.5	0.8	13.60	39.7	7570	7430	481	10 g/t Au Cutoff
CMIPT078	74	191	117	0.29	11	NSA	NSA	NSA	0.1 g/t Au, 10 g/t Ag

## APPENDIX 1 - SECTION 1 SAMPLING TECHNIQUES AND DATA

Criteria	JORC Code explanation	Commentary
Sampling techniques	<p><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></p>	<p><b>Rock chip samples</b> Random grab samples were taken at surface which represented favourable geology and alteration to known mineralisation in the region. Samples are variably weathered.</p> <p><b>Soil Samples</b> About 250g of soil was taken from 15-20cm below surface and sieved to - 2mm size. Samples put in plastic snap seal bags. Samples were subsequently sieved to -250 micron at SGS Laboratories for assay by aqua regia digest.</p> <p><b>RC Drilling</b> Reverse Circulation (RC) percussion drilling was used to produce a 1m bulk sample (~25kg) which was collected in plastic bags and representative 1m split samples (12.5%, or nominally 3kg) were collected using a riffle splitter and placed in a calico bag. The cyclone was cleaned out with compressed air at the end of each hole and periodically during the drilling. Holes were drilled to optimally intercept interpreted mineralised zones.</p> <p><b>Diamond Drilling</b> Diamond drilling was used to produce drill core either with a diameter of 63.5 mm (HQ) or 47.6 mm (NQ).</p> <p><b>Hand-held XRF</b> Handheld XRF analysis was completed with an Olympus INNOV-X 40Kev RAP Geochem Analyser instrument at 50 cm and 1 m intervals on diamond core and for every metre for RC samples. For individual veins or samples that are specifically reported, several readings are taken to establish an average. Investors should note that the analyses are semi-quantitative and are a guide only to the metal content. Laboratory assays are used in preference where available.</p>
<p><i>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used</i></p>	<p><b>Rock chip samples</b> Representative samples at each sample site weigh between 0.8 and 1.2 kg. Sample sites were chosen due to historic rock and soil assay results and the geophysical surveys conducted on the Commonwealth Project. Historic rock sample methods are unknown but are considered immaterial.</p> <p><b>Soil Samples and Drill Samples</b> Sample representivity was ensured by a combination of Company Procedures regarding quality control (QC) and quality assurance / testing (QA). Examples of QC include (but are not limited to), daily workplace and equipment inspections, as well as drilling and sampling procedures. Examples of QA include (but are not limited to) collection of “field duplicates”, the use of certified standards and blank samples approximately every 50 samples</p>	



Criteria	JORC Code explanation	Commentary
	<p><i>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 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 (e.g. submarine nodules) may warrant disclosure of detailed information</i></p>	<p><b>Rock chip samples</b> Rock samples were sent to SGS Perth where they were crushed, dried and pulverised (total prep) to produce a 25-30 g sub-samples for analysis initially by Aqua Regia digest with ICP-MS finish for base metals then by four acid digest with an ICP/AES finish for ore grade base metal samples and lead collection fire assay with AAS finish for gold.</p> <p><b>Soil Samples</b> Soil samples were sent to ACME Laboratories in Vancouver for analysis by aqua regia digest or to SGS Laboratories in Perth for analysis by the MMI digest.</p> <p><b>RC and diamond drill samples</b> RC samples and cut samples of core were submitted to ALS in Orange, NSW. Laboratory sample preparation involved: sample crushed to 70% less than 2mm, riffle/rotary split off 1 kg, pulverise split to &gt;85% passing 75 microns. RC samples analysed by MEICP41 or MEOG46 for ore grade samples, aqua regia digest with ICP OES analysis and AA24 fire assay with AAS finish. Historical diamond and RC samples were sent to Fox Anamet, Brookvale NSW where gold was determined by fire assay, base metals by DCP and AAS methods. Weathered samples contained gossanous sulphide material and fresh samples containing visible pyrite, galena, sphalerite and chalcopyrite.</p>
<b>Drilling techniques</b>	<p><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></p>	<p>Diamond drilling accounts for about 50 % of the drilling and comprises NQ (47.6 mm diameter) and HQ (63.5 mm diameter) sized core. Impact diamond core is triple tube and is oriented. Historical diamond core was not oriented. RC drilling accounts for about 50% of the drilling and comprises 4 inch hammer.</p>
<b>Drill sample recovery</b>	<p><i>Method of recording and assessing core and chip sample recoveries and results assessed</i></p> <p><i>Measures taken to maximise sample recovery and ensure representative nature of the samples</i></p> <p><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></p>	<p>Diamond core recoveries for all holes are logged and recorded. Recoveries are estimated to be approximately &gt;97% for the Commonwealth Project. No significant core loss or sample recovery problems are observed in the drill core or historic reports. RC samples were visually checked for recovery, moisture and contamination.</p> <p>Diamond core is reconstructed into continuous runs on an angle iron cradle for orientation marking. Depths are checked against the depth given on the core blocks and rod counts are routinely carried out by the driller. The RC samples are collected by plastic bag directly from the rig-mounted cyclone and laid directly on the ground in rows of 10. The drill cyclone and sample buckets are cleaned between rod-changes and after each hole to minimise down-hole and/or cross contamination.</p> <p>No sample bias has been established.</p>
<b>Logging</b>	<p><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></p>	<p>Geological logging of samples followed company and industry common practice. Qualitative logging of samples included (but not limited to); lithology, mineralogy, alteration, veining and weathering. Diamond core logging included additional fields such as structure and geotechnical parameters. Magnetic Susceptibility measurements were taken for each 1m RC sample and each 1m diamond core interval. For diamond core, information on structure type, dip, dip direction, texture, shape and fill material has been recorded in the logs. RQD data has been recorded on selected diamond holes.</p>

Criteria	JORC Code explanation	Commentary
	<i>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</i>	All logging is quantitative, based on visual field estimates. Systematic photography of the diamond core in the wet and dry form was completed. Chip trays with representative 1m RC samples were collected and photographed then stored for future reference.
	<i>The total length and percentage of the relevant intersections logged</i>	All diamond drill holes were logged in full. All RC chips samples were geologically logged by Impact's on-site geologist on a 1m basis, with digital capture in the field. Detailed diamond core logging, with digital capture was conducted for 100% of the core by Impact's on-site geologist.
<b>Sub-sampling techniques and sample preparation</b>	<i>If core, whether cut or sawn and whether quarter, half or all core taken.</i>	All core samples were sampled by half core. Selected intervals of quarter core will be selected for check assays if required.
	<i>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</i>	RC samples were split using a riffle splitter.
	<i>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</i>	Company procedures were followed to ensure sub-sampling adequacy and consistency. These included (but were not limited to), daily work place inspections of sampling equipment and practices, as well as sub-sample duplicates ("field duplicates").
	<i>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</i>	Laboratory QC procedures for rock sample assays involve the use of internal certified reference material as assay standards, along with blanks, duplicates and replicates. The QC procedure for historical diamond and RC samples is unknown but considered immaterial.
	<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>	Sample duplicates from the historical drilling were taken from selected intervals and compared to the original assay. Quarter core was taken for diamond samples and riffle re-splits for RC samples.
	<i>Whether sample sizes are appropriate to the grain size of the material being sampled.</i>	The samples sizes at Commonwealth are considered appropriate since gold has been identified as predominantly fine-grained by thin section analysis which would indicate the nugget effect is minimal.
<b>Quality of assay data and laboratory tests</b>	<i>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</i>	An industry standard fire assay technique for samples using lead collection with an Atomic Absorption Spectrometry (AAS) finish was used for gold and aqua regia digest for base metals and silver. The quality of historical drill sample assays is unknown, however this is considered immaterial at this stage of exploration.
	<i>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.</i>	No geophysical tools were used to determine material element concentrations. A handheld Olympus Innov-X XRF 40KeV instrument was used for semi-quantitative analysis only. The sampling interval was two times 20 second intervals. Calibration is carried out at the start of the sampling procedure each time the machine is turned on and appropriate standards are used every 25 <sup>th</sup> sample. Elements analysed include: Ag, As, Se, Ca, K, S, Sb, Sn, Cd, Sr, Rb, Pb, Hg, W, Cu, Ni, Co, V, Ti, Fe, Mn, P, Cr, Mo, U and Ta.
	<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>	For the rock chips, quality control procedures for assays were followed via internal laboratory protocols. Accuracy and precision are within acceptable limits. The quality control of historical drill sample assays is unknown, however this is considered immaterial at this stage of exploration.

Criteria	JORC Code explanation	Commentary
<b>Verification of sampling and assaying</b>	<i>The verification of significant intersections by either independent or alternative company personnel.</i>	Significant intersections from drilling have not been verified by independent or alternative companies. This is not required at this stage of exploration.
	<i>The use of twinned holes.</i>	Two twin diamond holes versus historic RC holes have been drilled at Commonwealth South and Main Shaft.
	<i>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</i>	Primary assay data for rock chips has been entered into standard Excel templates for plotting in Mapinfo and Target. All historical drill data has been entered digitally by previous explorers and verified internally by Impact.
	<i>Discuss any adjustment to assay data.</i>	No significant adjustments have been required.
<b>Location of data points</b>	<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>	Recent drill holes have been located by DGPS. Historical drill holes and mine shafts have been verified by DGPS.
	<i>Specification of the grid system used.</i>	The grid system for Commonwealth is MGA_GDA94, Zone 55.
	<i>Quality and adequacy of topographic control.</i>	Standard government topographic maps have been used for topographic validation. The DGPS is considered sufficiently accurate for elevation data. For the diamond holes, down-hole single shot surveys were conducted by the drilling contractor. Surveys were conducted at 6m, 18, 30m and then approximately every 30m down-hole. For the RC drill holes, down hole dip surveys were taken at approximately 30m intervals and at the bottom of the hole.
<b>Data spacing and distribution</b>	<i>Data spacing for reporting of Exploration Results.</i>	Drill spacing of drill holes ranges between 10 and 30 m which is considered adequate for Exploration Results.
	<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>	Drill spacing of drill holes ranges between 10 and 50 m and may be considered adequate for Mineral Resource and Ore reserve estimation procedures. However estimations of grade and tonnes have not yet been made.
	<i>Whether sample compositing has been applied.</i>	Sample compositing has been applied for quoting drill composite results only.
<b>Orientation of data in relation to geological structure</b>	<i>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</i>	Drilling is oriented sub-perpendicular to the mineralised trend and stratigraphic contacts as determined by field data and cross section interpretation.
	<i>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.</i>	No significant sample bias has been identified from drilling due to the optimum drill orientation described above. Where present, sample bias will be reported.
<b>Sample security</b>	<i>The measures taken to ensure sample security.</i>	For rock samples, chain of custody is managed by Impact Minerals Ltd. Samples for Commonwealth are delivered by Impact Minerals Ltd personnel to ALS in Orange, NSW or to SGS Perth for prep and assay. Whilst in storage, they are kept in a locked yard. Tracking sheets have been set up to track the progress of batches of samples. Security of historic drill samples is unknown however is considered immaterial.

Criteria	JORC Code explanation	Commentary
Audits or reviews	<i>The results of any audits or reviews of sampling techniques and data.</i>	A review of the sampling techniques and data both of historic drill holes and of Impact's procedures has been completed by Optiro Consultants of Perth, WA.

## SECTION 2 REPORTING OF EXPLORATION RESULTS

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 Commonwealth Project currently comprises 3 exploration licences covering 315 km <sup>2</sup> . The tenements are held 100% by Endeavour Minerals Pty Ltd, a subsidiary company of Impact Minerals Limited. No aboriginal sites or places have been declared or recorded in areas where Impact is currently exploring. There are no national parks over the license area.
	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 tenements are in good standing with no known impediments.
Exploration done by other parties	Acknowledgment and appraisal of exploration by other parties.	A total of 66 drill holes have been completed over 300 m strike between the Commonwealth main shaft and Commonwealth South by previous explorers to an average depth of 53 m.
Geology	Deposit type, geological setting and style of mineralisation.	The Commonwealth and Commonwealth South deposits are considered gold-rich volcanic hosted massive sulphide (VMS) deposits that occur at and below the contact with a porphyritic rhyolite and overlying volcanic sedimentary rocks. The mineralisation may have been overprinted by epithermal mineralisation.
Drill hole Information	<p>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:</p> <ul style="list-style-type: none"> <li>• easting and northing of the drill hole collar</li> <li>• elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar</li> <li>• dip and azimuth of the hole</li> <li>• down hole length and interception depth</li> <li>• hole length.</li> </ul>	See Table in text.
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 reported assays have been length weighted. No top cuts have been applied. A nominal cut-off of approximately 0.5 g/t Au has been applied.
	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.	High grade massive sulphide intervals internal to broader zones of disseminated sulphide mineralisation are reported as included intervals.

Criteria	JORC Code explanation	Commentary
	The assumptions used for any reporting of metal equivalent values should be clearly stated.	Gold equivalent values have been used in the long section. Metal prices used for the gold equivalent were \$1,650 for gold and \$30 for silver. Given the high grade results, it is assumed that very high recoveries will be achieved. However no metallurgical studies have been completed to verify this. Such studies will be done as and when appropriate.
<b>Relationship between mineralisation widths and intercept lengths</b>	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').	The majority of previous and current drill holes to date have been sub-perpendicular to the mineralised trend and stratigraphy so intervals are close to true width or otherwise stated.
<b>Diagrams</b>	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 Figures in body of text.
<b>Balanced reporting</b>	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 results reported are representative
<b>Other substantive exploration data</b>	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.	Assessment of other substantive exploration data is not yet complete however considered immaterial at this stage.
<b>Further work</b>	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	Follow up work programmes will be subject to interpretation of recent and historic results which is ongoing.