



**BARKERVILLE INTERSECTS 11.36 G/T AU OVER 12.36 METRES AND  
56.31 G/T AU OVER 4.10 METRES IN ISLAND MOUNTAIN PHASE I DRILLING  
NEW REPLACEMENT MINERALIZATION DISCOVERED**

**VANCOUVER, BC**– December 15, 2016 – **Barkerville Gold Mines Ltd.** (TSXV: BGM) (the “**Company**” or “**Barkerville**”) is pleased to announce additional results from the ongoing Phase I Island Mountain exploration drilling program at the Company’s flagship Cariboo Gold Project. Three drill rigs are currently operating on Island Mountain, with a fourth rig on Barkerville Mountain testing the 800 metre long KL Zone gold in soil anomaly. The results from the new drilling are presented in Table 2. A drill hole location plan map and longitudinal section are presented at the end of this release.

Highlights of the new drilling include: **12.91 g/t Au over 2.50 metres** in BGM-16-537, **56.31 g/t Au over 4.10 metres** in BGM-16-553, **11.23 g/t Au over 2.84 metres** in BGM-16-555, **34.72 g/t Au over 2.75 metres** in BGM-16-556, **11.36 g/t Au over 12.36 metres** in BGM-16-567. Reported core lengths represent 50-90% true widths.

**Island Mountain Phase I Drilling**

The ongoing 20,000 metre Phase I exploratory and stratigraphic drill program on Island Mountain is having continued success in discovering extensions to and defining new vein systems that were historically never developed or explored, and has also outlined new occurrences of massive sulphide replacement bodies. At the Aurum and Mosquito Creek mines, past exploration and mining was primarily focused on the replacement hosted gold as opposed to the veining due to the higher gold tenor and as such, the extents of the vein sets were never fully considered.

**New Replacement Mineralization Discovered**

A previously unknown body of massive pyrite replacement mineralization has been discovered 75 metres northwest of the Mosquito Creek Mine in drillhole BGM-16-553 which averaged **56.31 g/t Au over 4.10 metres**. The intersection occurs only 85 metres vertically below surface and opens a new exploration target along strike towards the northwest. Gold grade continuity within this massive sulphide replacement mineralization is remarkably continuous as illustrated in Table 1.

**Table 1: Raw assays and length weighted gold composite for drillhole BGM-16-553:**

HOLE-ID	SAMPLE-ID	FROM (M)	TO (M)	CORE LENGTH(M)	AU (G/T)
BGM-16-553	U011934	119.60	120.10	0.50	<b>48.40</b>
BGM-16-553	U011935	120.10	120.60	0.50	<b>62.10</b>
BGM-16-553	U011936	120.60	121.10	0.50	<b>52.70</b>
BGM-16-553	U011937	121.10	121.60	0.50	<b>59.30</b>
BGM-16-553	U011938	121.60	122.10	0.50	<b>39.30</b>
BGM-16-553	U011939	122.10	122.65	0.55	<b>98.30</b>
BGM-16-553	U011941	122.65	123.20	0.55	<b>40.50</b>
BGM-16-553	U011942	123.20	123.70	0.50	<b>47.30</b>
<b>LENGTH WEIGHTED AVERAGE</b>		<b>119.60</b>	<b>123.70</b>	<b>4.10</b>	<b>56.31</b>

Core lengths represent 50-90% true widths. Rock not recovered by drilling was assigned zero grade and not included in the composites. Top cuts have not been applied to high grade assays.

Approximately 40 metres down plunge of BGM-16-553, drillhole BGM-16-556 intersected additional replacement mineralization grading **34.72 g/t Au over 2.75 metres including 121.00 g/t Au over 0.60 metres**. The northwestern extension to the mine stratigraphy was previously interpreted to be truncated at the Aurum Fault and hence mine development was not undertaken to explore for additional mineralization across this structure. Past operators only undertook widely spaced, shallow exploratory drilling in this area. This new mineralization remains untested down plunge and along strike.

### **Drilling Continues to Identify New Veining**

New auriferous quartz veining was intersected by BGM-16-567 grading **11.36 g/t Au over 12.36 metres including 34.23 g/t Au over 4.00 metres** located 70 metres vertically below surface in an undeveloped and undrilled portion of the Aurum Mine. Approximately 70 metres along strike to the southeast, BGM-16-564 also intersected additional high grade veins averaging **41.73 g/t Au over 2.10 metres including 88.90 g/t Au over 0.95 metres**. These intersections were further corroborated by drillhole BGM-16-537 which delineated numerous other vein sets including **12.91 g/t Au over 2.50 metres** and also **10.83 g/t Au over 2.65 metres** located 65 metres footwall to the Aurum Mine at a vertical depth of 330 metres below surface.

Chris Lodder, President and CEO of Barkerville, states that with this initial phase of drilling on Island Mountain now complete, our exploration team has developed a solid geologic understanding to guide drilling through the 2017 infill and exploration programs on Island Mountain.

### **Qualified Persons**

Exploration activities at the Cariboo Gold Project are jointly administered on site by the Company's Project Managers, Maggie Layman, P.Geo. and Wanda Carter, P.Geo. As per National Instrument 43-101 Standards of Disclosure for Mineral Projects, Paul Geddes, P.Geo. Vice President Exploration, is the Qualified Person for the Company and has prepared, validated and approved the technical and scientific content of this news release. The Company strictly adheres to CIM Best Practices Guidelines in conducting, documenting, and reporting its exploration activities on the Cariboo Gold Project.

### **Quality Assurance – Quality Control**

Once received from the drill and processed, all drill core samples are sawn in half, labelled and bagged. The remaining drill core is subsequently stored on site at the Company's secure facility in Wells, BC. Numbered security tags are applied to lab shipments for chain of custody requirements. The Company inserts quality control (QC) samples at regular intervals in the sample stream, including blanks and reference materials with all sample shipments to monitor laboratory performance. The QAQC program was designed and approved by Lynda Bloom, P.Geo. of Analytical Solutions Ltd., and is overseen by Paul Geddes, P.Geo, Vice President Exploration.

Drill core samples are submitted to ALS Geochemistry's analytical facility in North Vancouver, British Columbia for preparation and analysis. The ALS facility is accredited to the ISO/IEC 17025 standard for gold assays and all analytical methods include quality control materials at set frequencies with established data acceptance criteria. The entire sample is crushed and 250 grams is pulverized. Analysis for gold is by 50g fire assay fusion with atomic absorption (AAS) finish with a lower limit of 5ppb and upper limit of 10,000ppb. Samples with gold assays greater than 10,000ppb are re-analyzed using 50g fire assay with gravimetric finish, as well as 1,000g screen metallic fire assay. Samples are also analyzed using a 48 multi-elemental geochemical package by a 4-acid digestion, followed by Inductively Coupled

Plasma Atomic Emission Spectroscopy (ICP-AES) and Inductively Coupled Plasma Mass Spectroscopy (ICP-MS).

### Stock Option Grant

Barkerville also announces that it has granted an aggregate of 400,000 options to purchase common shares of the Company exercisable at a price of \$0.55 per share for a period of five years, to an officer and consultant of the Company. The common shares issuable upon exercise of the options are subject to a four month hold period from the original date of grant.

For further information on Barkerville Gold Mines Ltd. please contact:

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### About Barkerville Gold Mines Ltd.

*The Company is focused on developing its extensive land package located in the historical Cariboo Mining District of central British Columbia. Barkerville's mineral tenures cover 1,164 square kilometres along a strike length of 60 kilometres which includes several past producing hard rock mines of the historic Barkerville Gold Mining Camp near the town of Wells, British Columbia. The QR Project, located approximately 110 kilometres by highway and all weather road from Wells was acquired by Barkerville in 2010 and boasts a fully permitted 900 tonne/day gold milling and tailings facility. Test mining of the Bonanza Ledge open pit was completed in March of 2015 with 91,489 tonnes of ore milled producing 25,464 ounces of gold. The Company has completed a number of drilling and exploration programs over the past 20 years and is currently compiling this data with all historical information in order to develop geologic models which will assist new management and provide the framework to continue to explore the Cariboo Gold Project. An extensive drill program is currently underway with the goal of delineating additional high grade gold mineralization.*

### Cautionary Statement on Forward -Looking Information

*Neither the TSX Venture Exchange ("TSXV") nor its Regulation Services Provider (as that term is defined in the policies of the TSXV) accepts responsibility for the adequacy or accuracy of this release. No stock exchange, securities commission or other regulatory authority has approved or disapproved the information contained herein. This news release contains forward-looking information which is not comprised of historical facts. Forward-looking information involves risks, uncertainties and other factors that could cause actual events, results, performance, prospects and opportunities to differ materially from those expressed or implied by such forward-looking information. Forward looking information in this news release includes, but is not limited to, the Company's objectives, goals or future plans, statements regarding exploration results and exploration plans. Factors that could cause actual results to differ materially from such forward-looking information include, but are not limited to, capital and operating costs varying significantly from estimates, the preliminary nature of metallurgical test results, delays in obtaining or failures to obtain required governmental, environmental or other project approvals, uncertainties relating to the availability and costs of financing needed in the future, changes in equity markets, inflation, fluctuations in commodity prices, delays in the development of projects and the other risks involved in the mineral exploration and development industry, and those risks set out in the Company's public documents filed on SEDAR. Although the Company believes that the assumptions and factors used in preparing the forward-looking information in this news release are reasonable, undue reliance should not be placed on such information, which only applies as of the date of this news release, and no assurance can be given that such events will occur in the disclosed time frames or at all. The Company disclaims any intention or obligation to update or revise any forward-looking information, whether as a result of new information, future events or otherwise, other than as required by law.*

**Table 2: Length weighted gold composites for drillholes BGM-16-537 through BGM-16-567:**

HOLE-ID	FROM (M)	TO (M)	CORE LENGTH (M)	AU (G/T)
BGM-16-537	98.60	99.10	0.50	12.30
BGM-16-537	135.00	137.50	2.50	12.91
INCLUDING	135.00	135.50	0.50	55.40
AND	137.00	137.50	0.50	7.07
BGM-16-537	146.00	146.65	0.65	16.25
BGM-16-537	200.50	201.00	0.50	8.78
BGM-16-537	262.15	262.70	0.55	15.50
BGM-16-537	336.00	337.50	1.50	9.22
BGM-16-537	352.45	355.10	2.65	10.83
INCLUDING	353.10	353.60	0.50	27.00

HOLE-ID	FROM (M)	TO (M)	CORE LENGTH (M)	AU (G/T)
BGM-16-538	38.20	39.00	0.80	5.18
BGM-16-539	99.40	99.90	0.50	8.19
BGM-16-540	228.00	228.80	0.80	6.17
BGM-16-540	317.00	317.50	0.50	7.46
BGM-16-541	14.30	14.80	0.50	105.50
BGM-16-541	308.95	309.45	0.50	15.25
BGM-16-541	337.40	337.90	0.50	7.40
BGM-16-542	112.35	112.85	0.50	6.25
BGM-16-542	148.10	150.35	2.25	10.49
INCLUDING	148.85	149.85	1.00	21.50
BGM-16-543	199.70	201.20	1.50	56.30
BGM-16-544	223.00	223.50	0.50	9.11
BGM-16-545	24.35	25.20	0.85	47.30
BGM-16-545	39.50	40.45	0.95	18.50
BGM-16-545	290.10	290.90	0.80	24.80
BGM-16-545	456.50	457.50	1.00	8.72
BGM-16-545	554.60	555.25	0.65	9.75
BGM-16-546	189.52	191.50	1.98	6.20
INCLUDING	189.52	190.02	0.50	7.81
AND	190.75	191.50	0.75	10.15
BGM-16-547	394.55	395.20	0.65	4.88
BGM-16-548	98.45	99.22	0.77	5.54
BGM-16-549	130.90	131.50	0.60	4.84
BGM-16-550				ASSAYS PENDING
BGM-16-551				ASSAYS PENDING
BGM-16-552	138.50	139.50	1.00	5.22
BGM-16-553	79.50	91.65	12.15	1.86
INCLUDING	82.50	83.00	0.50	6.20
AND	91.15	91.65	0.50	14.25
BGM-16-553	119.60	123.70	4.10	56.31
INCLUDING	119.60	120.10	0.50	48.40
AND	120.10	120.60	0.50	62.10
AND	120.60	121.10	0.50	52.70
AND	121.10	121.60	0.50	59.30
AND	121.60	122.10	0.50	39.30
AND	122.10	122.65	0.55	98.30
AND	122.65	123.20	0.55	40.50
AND	123.20	123.70	0.50	47.30
BGM-16-554	122.00	138.50	16.50	3.22
INCLUDING	123.90	130.00	6.10	5.05
BGM-16-555	10.66	13.50	2.84	11.23
INCLUDING	13.00	13.50	0.50	61.90
BGM-16-555	164.50	165.05	0.55	8.68
BGM-16-555	167.30	168.00	0.70	8.30
BGM-16-556	63.30	64.00	0.70	8.73
BGM-16-556	70.00	71.20	1.20	12.66
INCLUDING	70.00	70.60	0.60	18.55
BGM-16-556	110.25	110.75	0.50	7.67
BGM-16-556	121.00	123.75	2.75	34.72
INCLUDING	122.65	123.15	0.50	32.70
AND	123.15	123.75	0.60	121.00
BGM-16-556	158.30	158.80	0.50	12.15
BGM-16-558	34.00	34.80	0.80	5.69
BGM-16-559	42.90	44.60	1.70	14.55
BGM-16-559	68.20	68.80	0.60	15.60
BGM-16-559	77.90	79.00	1.10	28.50

HOLE-ID	FROM (M)	TO (M)	CORE LENGTH (M)	AU (G/T)
BGM-16-559	91.40	95.60	4.20	6.24
INCLUDING	91.40	92.10	0.70	13.25
AND	95.10	95.60	0.50	23.80
BGM-16-559	109.00	109.50	0.50	8.04
BGM-16-559	110.20	110.70	0.50	24.80
BGM-16-559	118.05	119.30	1.25	16.45
BGM-16-559	155.60	156.10	0.50	16.65
BGM-16-559	587.60	591.00	3.40	5.03
INCLUDING	588.20	588.90	0.70	16.40
BGM-16-559	690.00	690.50	0.50	26.50
BGM-16-560	182.00	182.65	0.65	3.46
BGM-16-562	47.00	48.00	1.00	8.64
BGM-16-562	61.40	62.95	1.55	27.25
INCLUDING	61.40	62.00	0.60	12.30
AND	62.00	62.95	0.95	36.70
BGM-16-563	190.20	191.40	1.20	6.42
BGM-16-563	252.35	253.15	0.80	5.55
BGM-16-564	15.42	16.90	1.48	48.30
BGM-16-564	139.55	141.65	2.10	41.73
INCLUDING	140.70	141.65	0.95	88.90
BGM-16-565	347.45	348.00	0.55	20.90
BGM-16-567	13.15	14.00	0.85	107.50
BGM-16-567	52.90	53.50	0.60	9.19
BGM-16-567	71.50	83.86	12.36	11.36
INCLUDING	73.00	77.00	4.00	34.23
INCLUDING	73.00	74.00	1.00	20.30
AND	76.00	77.00	1.00	110.00
BGM-16-567	106.00	107.00	1.00	9.31

Core lengths represent 50-90% true widths. Rock not recovered by drilling was assigned zero grade and not included in the composites. Top cuts have not been applied to high grade assays. NSA – No Significant Assays.

Table 2: Drillhole Collar Orientations

HOLE-ID	AZIMUTH	DIP	HOLE-ID	AZIMUTH	DIP
BGM-16-537	213.8	-63.2	BGM-16-551	331.9	-43.6
BGM-16-538	137.5	-63.1	BGM-16-552	137.5	-44.0
BGM-16-539	136.3	-64.5	BGM-16-553	136.3	-46.4
BGM-16-540	141.1	-44.1	BGM-16-554	137.9	-63.9
BGM-16-541	103.7	-43.9	BGM-16-555	143.0	-44.7
BGM-16-542	217.1	-45.2	BGM-16-556	136.8	-65.1
BGM-16-543	143.5	-57.1	BGM-16-558	144.5	-63.8
BGM-16-544	215.9	-65.6	BGM-16-559	330.0	-44.4
BGM-16-545	97.3	-44.1	BGM-16-560	138.8	-65.1
BGM-16-546	138.3	-43.4	BGM-16-562	141.9	-42.8
BGM-16-547	135.3	-44.7	BGM-16-563	139.6	-53.1
BGM-16-548	136.4	-63.4	BGM-16-564	144.2	-43.5
BGM-16-549	137.0	-64.7	BGM-16-565	143.4	-44.5
BGM-16-550	138.8	-54.3	BGM-16-567	146.1	-64.3

ISLAND MOUNTAIN DRILLHOLE LOCATION MAP  
WITH TERRAIN MODEL AND MINE DEVELOPMENT  
DECEMBER 2016



