# NE ADA GOLDMINES

Analyst Presentation September 19, 2019

One Team, One Mission

## **Cautionary Statement on Forward Looking Information**



Certain information contained or incorporated by reference in this presentation, including any information as to Barrick's strategy, projects, plans or future financial or operating performance, constitutes "forward-looking statements". All statements, other than statements of historical fact, are forward-looking statements. The words "believe", "expect", "anticipate", "target", "plan", "objective", "assume", "intend", "project", "pursue", "goal", "continue", "budget", "estimate", "potential", "may", "will", "can", "could", "would", "should" and similar expressions identify forward-looking statements. In particular, this press release contains forward-looking statements including, without limitation, with respect to: the expected impact of the creation of Nevada Gold Mines, including potential synergies; forward-looking production and cost guidance; mine life and production rates; estimated timing for development and/or construction of, and production from, new projects; our pipeline of high confidence projects at or near existing operations; potential mineralization and metal or mineral recoveries including from exploration targets; our ability to convert resources into reserves; the potential for Goldrush/Fourmile to become a Tier One gold asset; and other statements other than historical facts.

Known and unknown factors could cause actual results to differ materially from those projected in the forward-looking statements and undue reliance should not be placed on such statements and information. Such factors include, but are not limited to: fluctuations in the spot and forward price of gold, copper or certain other commodities (such as silver, diesel fuel, natural gas and electricity); the speculative nature of mineral exploration and development; changes in mineral production performance, exploitation and exploration successes; risks associated with projects in the early stages of evaluation and for which additional engineering and other analysis is required; timing of receipt of, or failure to comply with, necessary permits and approvals, the benefits expected from the Nevada Gold Mines transaction (including estimated synergies and financial benefits) or implementing the business plan for Nevada Gold Mines; diminishing quantities or grades of reserves; increased costs, delays, suspensions and technical challenges associated with the construction of capital projects; operating or technical difficulties in connection with mining or development activities, including geotechnical challenges and disruptions in the maintenance or provision of required infrastructure and information technology systems; failure to comply with environmental and health and safety laws and regulations; timing of receipt of, or failure to comply with, necessary permits and approvals; uncertainty whether some or all of Barrick's targeted investments and projects will meet the Company's capital allocation objectives and internal hurdle rate; changes in national and local government legislation, taxation, controls or regulations and/or changes in the administration of laws, policies and practices, expropriation or nationalization of property and political or economic developments in Canada, the United States and other jurisdictions in which the Company or its affiliates do or may carry on business in the future; damage to the Company's reputation due to the actual or perceived occurrence of any number of events, including negative publicity with respect to the Company's handling of environmental matters or dealings with community groups, whether true or not; the possibility that future exploration results will not be consistent with the Company's expectations; risks that exploration data may be incomplete and considerable additional work may be required to complete further evaluation, including but not limited to drilling, engineering and socioeconomic studies and investment; risk of loss due to acts of war, terrorism, sabotage and civil disturbances; litigation and legal and administrative proceedings; contests over title to properties, particularly title to undeveloped properties, or over access to water, power and other required infrastructure; business opportunities that may be presented to, or pursued by, the Company; our ability to successfully integrate acquisitions or complete divestitures; risks associated with working with partners in jointly controlled assets; employee relations including loss of key employees; increased costs and physical risks, including extreme weather events and resource shortages, related to climate change; and availability and increased costs associated with mining inputs and labor. In addition, there are risks and hazards associated with the business of mineral exploration, development and mining, including environmental hazards, industrial accidents, unusual or unexpected formations, pressures, cave-ins, flooding and gold bullion, copper cathode or gold or copper concentrate losses (and the risk of inadequate insurance, or inability to obtain insurance, to cover these risks).

Many of these uncertainties and contingencies can affect our actual results and could cause actual results to differ materially from those expressed or implied in any forward looking statements made by, or on behalf of, us. Readers are cautioned that forward-looking statements are not guarantees of future performance. All of the forward-looking statements made in this press release are qualified by these cautionary statements. Specific reference is made to the most recent Form 40-F/Annual Information Form on file with the SEC and Canadian provincial securities regulatory authorities for a more detailed discussion of some of the factors underlying forward-looking statements and the risks that may affect Barrick's ability to achieve the expectations set forth in the forward-looking statements contained in this press release. We disclaim any intention or obligation to update or revise any forward-looking statements whether as a result of new information, future events or otherwise, except as required by applicable law.





**Newmont Goldcorp 38.5%** 

**Board of Managers:** 

Barrick 3 board seats Newmont Goldcorp 2 board seats

**3 Advisory Committees:** 

Equal representation from both



	Joint Venture Ownership	<ul> <li>61.5% Barrick / 38.5% Newmont Goldcorp</li> <li>Transaction closed on July 1, 2019</li> </ul>
BARRICK	Assets Included	<ul> <li>Barrick: Goldstrike, Cortez, Turquoise Ridge, Goldrush, and South Arturo</li> <li>Newmont Goldcorp: Carlin, Twin Creeks, Phoenix, Long Canyon, and Lone Tree</li> <li>Associated processing facilities and other infrastructure</li> </ul>
<b>+</b> -	Assets Excluded	Development assets, including Fourmile, Mike and Fiberline, can be included at a later date if the required investment hurdles are satisfied
NEWMONT GOLDCORP.	Operator	Barrick: responsible for carrying out operations in accordance with approved programs and budgets
	Joint Venture Governance	<ul> <li>Board of Managers: representation and voting power reflect ownership levels</li> <li>Barrick controls 3 board seats and Newmont Goldcorp controls 2 board seats</li> <li>Advisory Committees: Finance, Technical, and Exploration</li> </ul>

## Why Nevada?



Only **six gold belts** hosting gold endowments of **+200Moz** across the globe; NGM has unparalleled land package in the Great Basin district



a. Source: SNL, Market Intelligence

b. Endowment: Past production + total reserves + total resources (exclusive of reserves)



a.



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## Nevada ranked as **#1 on the investment attractiveness index** for mining companies in 2018<sup>a</sup> when considering both policy and mineral potential

Country investment attractiveness index, 100 = most attractive



## Mining Properties in Nevada









10 Underground Mines

**12 Open Pit Mines** 

**2** Roaster Facilities

2 Autoclave Facilities

**2** Flotation Facilities

4 Oxide Mills



## Why Nevada Gold Mines?



- Best-in-class operations in an attractive investment region
  - ✓ Three operating Tier 1 assets<sup>3</sup> (Turquoise Ridge/Twin Creeks, Carlin, and Cortez), Goldrush set to become the fourth
  - Single largest gold producer; H2 2019 forecast of between 1.8Moz-1.9Moz at a preliminary estimated cost of sales<sup>5</sup> of \$940 \$970 per ounce and an estimated AISC<sup>5</sup> of \$920 \$950/oz
  - ▼ 3.5 3.8 Moz/annum production profile over next 5 years
  - Access to significant existing infrastructure, including highways, rail, power plants, regional hubs, etc.
- Culture of delivery, "One Team, One Mission"
  - Skilled workforce and senior leadership team with extensive local and global experience
  - Successful and swift integration of six operational units involving ~7,000 people on July 1<sup>st</sup>
- Significant value creation through operational and growth synergies
  - \$450-500M/annum in synergies over next five years<sup>2</sup>
  - Long term value creation of ~\$4.7B NPV5 over 10-year period<sup>2</sup>
- Growth potential from unparalleled land package in one of the most prospective gold districts

48.3Moz gold at 2.3g/t in reserves<sup>1</sup> with significant growth potential; Goldrush/Fourmile\*, Carlin, and Turquoise Ridge
\*Fourmile is currently a Barrick asset with potential to be added to Nevada Gold Mines if certain targets are met.



Our mission is to be the world's most valued gold mining business, by having the **best assets with the best people** to deliver **the best value** to stakeholders.



Attract and develop strong, world-class people who are informed and involved in the processes of the company, act with integrity and are tireless in their pursuit of excellence.

World-Class People







## One Team, One Mission – By Site





## One Team, One Mission - Senior Leadership Team



## Partnering with Communities



- Build and strengthen trust with community stakeholders
- Commitment to partnerships with long-term sustainable outcomes
- Manage operational impacts and maximize opportunities in host communities
- Introduce Nevada Gold Mines Legacy Fund
- Enable and facilitate workforce involvement in host communities
- Grow the next generation to be career ready











## Update on Synergies



#### Pre-tax FCF (\$M/annum) from H2 2019 - 2024



Project in progress



#### Highlight of notable projects within the synergy pipeline \$450 – 500M/annum<sup>a</sup> in 2020-2024 Growth **Mid-term** Short-term "Easy Win" **Regional and Site-**Integrated **Based Indirects** (Immediate) (5+ years) (2-5 years) (1-2 years) Planning **TR-TC** self-perform Combined exploration Integrated dewatering Ranch management • pipeline in key districts: plan for both TR-TC surface operations Share equipment TR, Carlin and and Carlin Consolidate Elko, across Carlin and 25 - 22% Goldrush-Fourmile<sup>b</sup> 29 - 35% Renewed interest in Winnemucca offices Cortez Combined project North Post<sup>c</sup> at Carlin Org structure Supply chain pipeline Sharing fleet across optimization logistics and Combined sourcing of sites for capital projects warehousing Employee fuel for refractory transportation Goldstrike tailings Consolidate software 23 - 24% facilities capacity de-risking and and licenses Roaster ore routing Under-drilled targets optionality Consolidate Carlin Supply along Carlin-Goldstrike Extend Goldstrike Long-term resource model 10 - 12% Chain corridor autoclave (RIL) life optionality at Sage Autoclave Capacity for growth Goldstrike Autoclave **Turquoise Ridge/** Continue operation blending optimization roaster ore, including of Mill 5 **Twin Creeks** TR surface mining Goldrush-Fourmile<sup>b</sup> Mining TR over the opportunities (Getchell South Arturo oxides $\checkmark$ TMA limit Ore transport optionality pit) Removal of TMA from Cortez to Carlin Optimize roaster **Opex**, Fleet, and facilities Supply chain Maintenance For the 5 years (2020-2024) Fourmile is currently a Barrick asset with potential to be added to procurement Project in execution or executed

Nevada Gold Mines if certain targets are met.North Post was a joint venture between Barrick and Newmont

## Supply Chain Synergies





## Growth Projects Across All NGM Assets





## Strong Reserve & Resource Base<sup>1</sup>





#### Expected to sustain 3.5Moz – 3.8Moz annual production profile over next 5 years





Reserves grade significantly higher than the peer average in a stable jurisdiction next to infrastructure/processing facilities

Backed by equally high-grade M&I and Inferred Resource

\* Barrick and Newmont Goldcorp post-joint venture attributable proven and probable gold mineral reserves figure as at year-end 31 December 2018, on a combined basis, Reserve grade is calculated using a weighted average. See Endnote (1). Source: company disclosure. Shown on an attributable basis. Reserve and grade data based on individual companies' assumptions. Peer Average grade figure is based on the published gold reserves and grade and calculated on a weighted average basis.

## Three Tier 1 Assets<sup>3</sup> with Significant Upside



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~2/3 of the potential contained ounces have been converted to Reserves and Resource

Unparalleled ~8,000 km<sup>2</sup> of prospective land position in one of the most endowed +200Moz gold districts in the world \*Potential guantities and grades in these preliminary results are conceptual in nature and there has been insufficient exploration to define a mineral resource at this time and it is uncertain that further exploration will result in the target being delineated as a mineral resource.

## Leeville Complex - Significant Growth Potential







~1/3 of the potential contained ounces have been converted to Reserves and Resource

Mineralization remains open along the known structural and stratigraphic controls

Inferred

P&P

M&I Exploration Upside (drilled non-Resource material)

## Goldrush - Our Fourth Tier 1 Asset<sup>3</sup>?



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Fourmile\*: a growing high-grade potentially multi million ounce discovery

\*Potential quantities and grades in these preliminary results are conceptual in nature and there has been insufficient exploration to define a mineral resource at this time and it is uncertain that further exploration will result in the target being delineated as a mineral resource. <sup>1</sup>See Endnote 1 and Appendix B. \*Fourmile is currently a Barrick asset with potential to be added to Nevada Gold Mines if certain targets are met.

## Turquoise Ridge - Multi Moz Growth Potential





Unlocking upside potential through removal of TMA: COG reduction from 10.2 g/t to 6.5 g/t Au

Significant exploration upside potential along the key controlling structures

\*Potential quantities and grades in these preliminary results are conceptual in nature and there has been insufficient exploration to define a mineral resource at this time and it is uncertain that further exploration will result in the target being delineated as a mineral resource. <sup>1</sup>See Endnote 1 and Appendix C. <sup>a</sup> Mid-Year 2018 Life of Mine plan cut-off grade (COG)

P&P

M&I

Exploration Upside (drilled non-Resource material)

Inferred



#### ~\$100M Mineral Resource Management & Exploration 2019 NGM Budget



(81% Near Mine; 19% Brownfields)

Focused spend: 85% of total dollars spent on the three Tier 1 assets

**F** Good short-term vs. long-term balance: 35% on Reserves conversion and 65% on Resource growth

## **Exploration Upside on Consolidated Properties**





## North Carlin Trend



## 10 km<sup>2</sup> of underexplored opportunity in the heart of the Carlin Trend

#### Little Boulder Basin

- Large area between giant deposits with only two drill holes through best host rocks, both mineralized<sup>a</sup>
  - ✔ LBB-0100: 7.6m @ 17.8 g/t Au
  - ✔ LBB-0102: 5.9m @ 26.6 g/t Au
- Geochemical vectors point to undrilled area
- Geological setting favorable for hosting high grade as demonstrated by Tier 1<sup>3</sup> orebodies east and west
- Drilling has commenced



## Securing Future Upside at Fourmile\*

## Adding very high grade

#### Highlights from Q3 to date

- At Fourmile, results returned from 22 advanced exploration drill holes<sup>a</sup>
- Best ever intercept from Goldrush/Fourmile

#### FM19-46D: 25.6m @ 80.9 g/t plus 29m @ 54.6 g/t Au

- Highlighted >400 gm-m Au results grow strike length to 1.3km and close gap to Goldrush
- Successful follow up of 2018 discovery quality intercepts
- Significant resource growth expected
- Mineralization remains open in multiple directions; pivoted to step out drilling in H2

Fourmile is currently a Barrick asset with potential to be added to Nevada Gold Mines if certain targets are met.
 a. Q3 to date significant intercepts tabulated in Appendix F



## BARRICK

## New Discovery\* – High Grade on the Horizon



Fourmile is currently a Barrick asset with potential to be added to Nevada Gold Mines if certain targets are met.

a. Significant intercept tabulated in Appendix F

BARRICK

## **Excluded Assets**



- Fourmile is the most advanced exploration project of the three excluded assets in the JV agreement. The project is 100% owned by Barrick and will benefit from the infrastructure within Nevada Gold Mines
  - The other two excluded assets (Mike and Fiberline) are wholly-owned by Newmont Goldcorp
- How do you contribute excluded assets to Nevada Gold Mines?
  - A successful feasibility study must first be completed that demonstrates a minimum base-case IRR of 15%<sup>i</sup>. This feasibility study must be completed by a firm approved by both Barrick and Newmont Goldcorp
- Upon completion of a successful feasibility study...
  - ...the JV partner that owns the excluded asset is <u>required</u> to contribute the asset to Nevada Gold Mines
- The contribution value of the excluded asset is the sum of:
  - 1) a fair market value<sup>ii</sup> that is mutually agreed by Barrick and Newmont Goldcorp
  - 2) the cost of a successful feasibility study, including the cost of any associated program of exploration to complete the feasibility or any previous prefeasibility study
- If necessary, independent experts may be appointed to determine and set 'fair market value'. Relevant factors to be considered by the experts include:
  - The conclusions of the successful feasibility study
  - Relevant multiples for comparable companies and precedent transactions (i.e. P/NAV, P/CF, etc.)
  - Cost savings and other synergies from the benefit the excluded asset has from existing Nevada Gold Mines infrastructure and its related impact on the JV

The non-contributing JV partner can pay cash for its proportionate interest of the contribution value of the excluded asset or dilute its interest in Nevada Gold Mines

i. Calculated with reference to the two year trailing average gold price immediately preceding the date of the feasibility study, the spot gold price, the reserve gold price and such other reasonable inputs and assumptions as determined by the authors of such study in consultation with Barrick and Newmont Goldcorp, acting reasonably

ii. The cash purchase price that a knowledgeable party would pay for the excluded asset in an arm's length transaction

## NE ADA GOLDMINES

Nevada Gold Mines...best assets with best people to deliver best value to stakeholders

- Leadership team in place One Team, One Mission
- Targeting production of 3.5 3.8 M oz/annum over next 5 years
- Identified synergies expected to deliver up to \$500M/annum<sup>2</sup>
- 48.3M oz gold at 2.3 g/t in reserves<sup>1</sup>; significant growth potential
- Set to be our fourth Tier 1 asset: Goldrush... is Fourmile\* number 5?



## Turquoise Ridge/Twin Creeks

## One Team, One Mission

## Twin Creeks – Over 30 Years of Profitable Mining



## Turquoise Ridge/Twin Creeks Overview

- Turquoise Ridge:
  - One underground mine with shaft access
  - Ore processed at Sage Autoclave
  - Eight loaders and thirteen haul trucks
- Twin Creeks:
  - Mega open pit
  - Vista open pit
  - Vista: underground mine with portal access
  - Two shovels and twelve haul trucks
  - Sage autoclave (87% 92% recovery)
    - Single refractory @3.5Mt/annum
  - Juniper oxide mill (85% 86% recovery)
    - Oxide @0.8Mt/annum
  - Heap leach facilities
    - Oxide @~1.0Mt/annum placed







## Turquoise Ridge/Twin Creeks



#### **Synergies**

- Removal of toll milling agreement for Turquoise Ridge ore
- Consolidated district geology



#### Efficiencies

- 3<sup>rd</sup> Shaft Project at Turquoise Ridge UG
- Reduce COG at Turquoise Ridge
- Increase autoclave
   processing capability



#### **Upside Potential**

- Twin Creeks pit
   extensions
- Turquoise Ridge pit opportunities
- Exploration along TR /TC trend



#### Management

- Operating Turquoise Ridge and Twin Creeks as one complex
- MRM role
- Technical expertise shared between facilities

#### ONE TEAM, ONE MISSION

## Turquoise Ridge Mining Cost Reduction Strategy



## REDUCE THE INPUT. . .

#### Short Term (Present – 1 Year)

Bottleneck review and remediation

- Manpower
- **Equipment**
- Available faces

#### Roadheader optimization

- Face utilization
- Fibercrete/split set

Increased mining dimensions

- Increase face height
- Increase round length

# Mid Term (1 Year – 4 Years) Mining method optimization Orebody domaining Increased bench height Test stope Larger load & haul fleet

Ventilation cost reduction

- Battery powered load & haul
- Ventilation on demand

#### Automation

- Jumbo drills
- Roadheader
- Fixed plant operation

#### Long Term (4+ Years)

#### Infrastructure

- Moisting rates
- Ore handling
- Fill rates


### 3<sup>rd</sup> Shaft to Increase Future Productivity<sup>7</sup>



- Economic Drivers
  - Production pulled forward by means of higher production levels
    - Increased hoisting capacity to 5,500 tonnes per day
    - Increases the mining rate to 1.4 Mt/annum, up from 0.9 Mt/annum in 2019
  - Lowered operating costs
  - Increased LOM ounces through reducing COG



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Values are based on current operations. Reported units are metric unless otherwise stated.

# Turquoise Ridge - Multi Moz Growth Potential





Unlocking upside potential through removal of TMA: COG reduction from 10.2 g/t to 6.5 g/t Au

Significant exploration upside potential along the key controlling structures

\*Potential quantities and grades in these preliminary results are conceptual in nature and there has been insufficient exploration to define a mineral resource at this time and it is uncertain that further exploration will result in the target being delineated as a mineral resource. <sup>1</sup>See Endnote 1 and Appendix C. <sup>a</sup> Mid-Year 2018 Life of Mine plan cut-off grade (COG)

P&P

M&I

Exploration Upside (drilled non-Resource material)

Inferred

### Twin Creeks – Site Overview







Carlin

### One Team, One Mission

### **Goldstrike History**



- Exploration activity in area for antimony
- Goldstrike discovered by Atlas
- Polar & Pancana start small heap leach 3,200 ozs
- Post discovered, 99M tonnes containing 3.5M ozs
- American Barrick acquires Goldstrike for \$62M
- Betze and Screamer discovered
- 1988 Rodeo and Meikle discovered
- Commissioned first autoclaves
- Underground production begins
- 2000 Commissioned roaster
- 2006 Goldstrike produced 30 millionth ounce
- 2012 25th Anniversary Produced 40 millionth ounce
- TCM commercial production
- 2016 20th anniversary Meikle production



### **Carlin History**



- 1961 Original gold discovery Carlin Deposit
- **1965** Mining began at the Carlin Deposit 1<sup>st</sup> large open pit gold mine in the USA
- 1965 Mill 1 (Merrill-Crowe Oxide Mill)
- **1977** Maggie Creek discovered
- **1979** Gold Quarry discovered
- **1981** First heap leach (Maggie Creek)
- **1993** First underground in production (Carlin East)
- 1984 Mill 2 (oxide mill) built
- **1985** Mill 3 (Rain oxide)/Mill 4 (Genesis oxide) built
- **1989** Mill 5 (oxide mill) built
- 1994 Mill 6 (Roaster) built
- 2001 Bio-leach commissioned/processed at Mill
- **2004** Flotation expansion at Mill 5
- 2015 50 millionth ounce & 50 years on the Carlin Trend



# History of Leeville

- **1994** Discovery hole drilled
- **2002** Development of Leeville decline from Carlin East mine began
- **2003** Production Shaft #2 construction began
- 2004 Connection with underground workings and Vent Shaft #1 established
- 2006 Completion of Production Shaft #2
- **2008** Full production at 3,175 tonnes per day, sustained
- 2015 Q4 Vent Shaft #3 commissioned
- 2016 Q2 Paste Plant commissioned
- **2016** Installation of long term ground support
- **2017** Production stabilized at 4,100 tonnes per day, sustained
- 2018 Maintain production while resuming exploration
- Mid-2029 Current mine life with existing reserves and resources





### **Carlin Underground Overview**

- Underground operations consist of six mines:
  - Goldstrike: Portal and shaft access
  - El Nino<sup>a</sup>: Portal access in the South Arturo Pit
  - Leeville: Shaft access with paste backfill
  - Exodus: Portal mine located in the Lantern pit
  - Pete Bajo: Portal mine located in the Pete pit, connected to Leeville via drift and decline
  - Chukar: Portal mine located in the Gold Quarry pit
- Twelve production loaders and fifteen haul trucks (Goldstrike/El Nino)
- Eleven loaders and thirteen haul trucks (Leeville)
  - Includes five autonomous loaders
- Eight loaders and ten haul trucks (Exodus/Pete Bajo)
- Chukar is contractor operated



Growth and Mineral Resource Management opportunities along the former Carlin-Goldstrike property boundary, including Deep Post, and extension of Goldstrike UG north to Ren deposit. Significant Mineral Resource Management and exploration growth potential at Leeville.

### **Carlin Surface Overview**

- Carlin mining:
  - South Arturo<sup>1</sup> open pit
  - Goldstrike open pit
  - Genesis open pits (Silver Star, Gold Star, North Star)
  - Gold Quarry open pit
  - Five shovels and twenty-seven haul trucks (Goldstrike/Arturo)
    - Includes five autonomous capable trucks at South Arturo
  - Three shovels and thirty haul trucks (Genesis/Gold Quarry)
- Carlin processing:
  - Goldstrike Roaster (85% 90% recovery)
    - Double refractory @ 5.0 5.5Mt/annum
  - Goldstrike Autoclave (POX-RIL) (59% 60% recovery)
    - Double refractory @ 5.0 5.5Mt/annum
  - Gold Quarry Mill 6 Roaster (86% 90% recovery)
    - Double refractory @ 3.2Mt/annum
  - Gold Quarry Mill 5 Flotation
    - Produces sulphide concentrate for blending at Mill 6 and Sage Autoclave
  - Multiple heap leach facilities

There are growth opportunities along the boundary with Goldstrike and pits with autoclave material, including Tara Pit and North Star/Frontier Pit.







### Carlin





#### **Synergies**

- Integrated metal planning across Carlin and including Cortez
- Extend life of Mill 5 and Goldstrike Autoclave
- Shared mining equipment
- Consolidated resource potential across Carlin-Goldstrike
- Consolidated water management



#### Efficiencies

- Optimize Mill 6 Roaster, mill, and oxygen plant debottlenecking
- Underground efficiencies expanding use of automation
- Utilization of Deswik Ops for short-term interval control for shift planning and schedule optimization



#### **Upside Potential**

- Major growth potential along trend at Leeville North
- Significant upside along former Goldstrike-Carlin boundary
- Rita K
- Ren
- Goldstrike underground at depth



#### Management

- Consolidated Goldstrike and Carlin
- GM of Surface Operations, managing process and open pits
- GM of Underground Operations, managing all underground mines
- MRM role

#### ONE TEAM, ONE MISSION

# **Operating Synergies - Ore Routing**

### 1 Autoclave Ore Routing

 Pete R2 stockpile (Carlin) to Goldstrike Autoclave to extend acid life into Q2 2020

### **2** Continue Operating Mill 5

- Mill 5 provides sulphide concentrate to Mill 6, but was scheduled to shut down in June 2019
- BR19 Goldstrike stockpile material to extend operation

### **3** Roaster Ore Routing

- Significant quantity of roaster ore in current plan and growth projects
- Two roasters unlock previous constraints and allows optimization of roaster ore movement
- Carlin UG ore to Goldstrike Roaster with shorter haul by ~18km and higher recovery
- Cortez to Mill 6 Roaster with shorter haul by ~32km, with approval received and process optimization of Mill 6 underway





### Leeville - Utilizing Semi-Autonomous Equipment





#### **Semi-Autonomous Mucking**

- Initial state Ran 2 CAT R1700 from underground
- Current state Running 5 CAT R1600 from surface
- Achieved 100% of stope tons by semi-autonomous mucking in September 2018 and continues to present day
- One operator with multiple loaders



#### **Semi-Autonomous Drilling**



- Current state Piloting single ring semi-autonomous drilling at Exodus
- Future state Running Simba LH drill from surface

### Carlin Trend - Leeville to Pete Bajo





 $NW \longrightarrow SE$ 

# Leeville Complex - Significant Growth Potential







~1/3 of the potential contained ounces have been converted to Reserves and Resource

Mineralization remains open along the known structural and stratigraphic controls \*Potential guantities and grades in these preliminary results are conceptual in nature and there has been insufficient exploration to define a mineral resource at this time and it is uncertain that further exploration will result in the target being delineated as a mineral resource. <sup>1</sup>See Endnote 1 and Appendix A.

Exploration Upside (drilled non-Resource material)

### **Carlin Synergies**



1.0-3.0Mtonnes @ 1.5 -10 g/t Au, synergies currently not in the LOM

- Tara Pit: Extending pit to the south across the former property boundary
- Deep Post: Access from Goldstrike underground to access remnant mining around the high-grade Deep Post mine
- Northstar/Frontier Pit: Target straddles the property and was not progressed

### North Carlin Trend



### 10 km<sup>2</sup> of underexplored opportunity in the heart of the Carlin Trend

### Little Boulder Basin

- Large area between giant deposits with only two drill holes through best host rocks, both mineralized<sup>a</sup>
  - ✔ LBB-0100: 7.6m @ 17.8 g/t Au
  - ✔ LBB-0102: 5.9m @ 26.6 g/t Au
- Geochemical vectors point to undrilled area
- Geological setting favorable for hosting high grade as demonstrated by Tier 1 orebodies east and west
- Drilling has commenced





Cortez

### One Team, One Mission

## Cortez Mining History (1860 – present)





#### 1860s Cortez Silver

- **1922** Gold Acres discovered produced 1.1Moz
- **1966** Cortez Pits discovered produced 868koz
- **1982** Horse Canyon discovered production included with Gold Acres (~400koz of total)
- **1991** Pipeline discovered produced 12.5Moz through 2018
- **1992** Crossroads discovered production began 2018
- 1998 Pediment
- **2002** Cortez Hills and Deep South produced 9.9Moz through 2018
- 2011 Goldrush discovered
- **2015** Fourmile discovery hole drilled

#### Values are based on current operations. Reported units are metric unless otherwise stated. 55

#### Significant growth opportunity from Tier 1 project Goldrush; first gold expected late 2021.

# Cortez Overview

- Cortez mining:
  - Pipeline open pit
  - Crossroads open pit
  - Cortez Hills underground mine with portal access
  - Six shovels and forty-six haul trucks (open pit)
  - Nine UG loaders and 13 haul trucks (underground)
- Cortez process:
  - Mill (81% 85% recovery<sup>8</sup>)
    - Oxide @ 3.7 4.5Mt/annum
  - Two heap leach facilities (~62% recovery<sup>8</sup>)
    - Area 30 heap leach expansion to be completed by end of year
  - Over-the-road (OTR) haulage to Carlin process facilities





### Cortez



#### **Synergies**

- Integrated metal planning between Carlin and Cortez
- Shared mining equipment

#### Efficiencies

- Optionality for transporting ore to Carlin
- Cortez underground optimization, including:
- Optimization of stope mining
- Materials handling system
- UG backfill plant construction



#### **Upside Potential**

- Deep South
- Exploration of Battle Mountain-Eureka Trend
- Goldrush, a potential Tier 1 asset<sup>3</sup>
- Fourmile\*
- Robertson



#### Management

- MRM role
- Integrated planning with Carlin
- Current open pit operations, underground operations, and Goldrush project under same management

#### **ONE TEAM, ONE MISSION**

\*Fourmile is currently a Barrick asset with potential to be added to Nevada Gold Mines if certain targets are met

### Deep South - Low Cost Ounces for 10+ Years<sup>8</sup>





### Goldrush – Our Fourth Tier 1 Asset<sup>3</sup>?



- Amended Plan of Operations document has been prepared and is ready for submission
- Reduced capital spend based on fit for purpose review
- Goldrush designed to incorporate proven automated mining methods from start of mining
- Optimized location for the paste plant selected Paste plant will drive operational efficiencies over the previously planned CRF plant.





### Goldrush - Our Fourth Tier 1 Asset<sup>3</sup>?



59



Fourmile\*: a growing high-grade potentially multi million ounce discovery

\*Potential quantities and grades in these preliminary results are conceptual in nature and there has been insufficient exploration to define a mineral resource at this time and it is uncertain that further exploration will result in the target being delineated as a mineral resource. <sup>1</sup>See Endnote 1 and Appendix B. \*Fourmile is currently a Barrick asset with potential to be added to Nevada Gold Mines if certain targets are met.

# Securing Future Upside at Fourmile\*

### Adding very high grade

### Highlights from Q3 to date

- At Fourmile, results returned from 22 advanced exploration drill holes<sup>a</sup>
- Best ever intercept from Goldrush/Fourmile

### FM19-46D: 25.6m @ 80.9 g/t plus 29m @ 54.6 g/t Au

- Highlighted >400 gm-m Au results grow strike length to 1.3km and close gap to Goldrush
- Successful follow up of 2018 discovery quality intercepts
- Significant resource growth expected
- Mineralization remains open in multiple directions; pivoted to step out drilling in H2

Fourmile is currently a Barrick asset with potential to be added to Nevada Gold Mines if certain targets are met.
a. Q3 to date significant intercepts tabulated in Appendix F



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### New Discovery\* – High Grade on the Horizon



Fourmile is currently a Barrick asset with potential to be added to Nevada Gold Mines if certain targets are met.

a. Significant intercept tabulated in Appendix F

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### Third Party Data and Technical Information



#### **Third Party Data**

Certain comparisons of Barrick, Newmont Goldcorp and their industry peers are based on data obtained from Wood Mackenzie. Wood Mackenzie is an independent third party research and consultancy firm that provides data for, among others, the metals and mining industry. Wood Mackenzie does not have any affiliation to Barrick or Newmont Goldcorp.

Other than in respect of their own mines, neither Barrick nor Newmont Goldcorp has the ability to verify the data or information obtained from Wood Mackenzie and the non-GAAP financial performance measures used by Wood Mackenzie may not correspond to the non-GAAP financial performance measures calculated by Barrick, Newmont Goldcorp or their respective industry peers. For more information on these non-GAAP financial performance measures see Endnote 5.

Neither Barrick nor Newmont Goldcorp has sought or obtained consent from any third party to be quoted in this presentation.

#### **Technical Information**

The scientific and technical information contained in this presentation in respect of Barrick has been reviewed and approved for release by Steven Yopps, MMSA, Director - Metallurgy, North America, Rodney Quick, MSc, Pr. Sci.Nat, Mineral Resource Management and Evaluation Executive, and Rob Krcmarov, FAusIMM, Executive Vice-President, Exploration and Growth, each a "Qualified Person" as defined in National Instrument 43-101 – Standards of Disclosure for Mineral Projects.

### Endnotes



1. The pro forma reserves and resources figures of Nevada Gold Mines were derived by adding the respective reserves and resources in respect of Nevada operations reported by Barrick in its 2018 Annual Information Form and Newmont in its press release dated February 21, 2019 reporting its 2018 Reserves and Resources and its annual report on Form 10-K for the fiscal year ended December 31, 2018 in respect of the relevant Nevada properties set out below. The pro forma reserves and resources are provided for illustrative purposes only. Barrick and Newmont calculate such figures based on different standards and assumptions, and accordingly such figures may not be directly comparable and the pro forma reserves and resources may be subject to adjustments due to such differing standards and assumptions. In particular, Barrick mineral reserves and resources have been prepared according to Canadian Institute of Mining, Metallurgy and Petroleum 2014 Definition Standards for Mineral Resources and Mineral Reserves as incorporated by National Instrument 43-101 – Standards of Disclosure for Mineral Projects, which differ from the requirements of U.S. securities laws. Newmont's reported reserves are prepared in compliance with Industry Guide 7 published by the SEC, however, the SEC does not recognize the terms "resources" and "measured and indicated resources (combined) are equivalent to "Mineralized Material" disclosed in its annual report on Form 10-K.

Reserves and resources of Barrick in Nevada are stated on an attributable basis as of December 31, 2018 and include Goldstrike, Cortez, Goldrush, South Arturo (60%) and Turquoise Ridge (75%). Proven reserves of 84.4 million tonnes grading 4.36 g/t, representing 11.8 million ounces of gold. Probable reserves of 155.6 million tonnes grading 2.93 g/t, representing 14.7 million ounces of gold. Measured resources of 13.5 million tonnes grading 4.22 g/t, representing 14.2 million ounces of gold. Indicated resources of 101.6 million tonnes grading 4.34 g/t, representing 14.2 million ounces of gold. Inferred resources of 28.7 million tonnes grading 5.2 g/t, representing 4.8 million ounces of gold. Complete mineral reserve and resource data for all Barrick mines and projects referenced in this presentation, including tonnes, grades, and ounces, as well as the assumptions on which the mineral reserves for Barrick are reported, are set out in Barrick's 2018 Annual Information Form issued on March 22, 2019.

Reserves and resources of Newmont in Nevada are stated on an attributable basis as of December 31, 2018 and include Carlin, Phoenix, Twin Creeks (including Newmont's 25% equity in Turquoise Ridge) and Long Canyon. Proven reserves of 46.6 million tonnes grading 3.84 g/t, representing 5.8 million ounces of gold. Probable reserves of 378.1 million tonnes grading 1.32 g/t, representing 16.0 million ounces of gold. Measured resources of 19.7 million tonnes grading 1.27 g/t, representing 10.0 million ounces of gold. Inferred resources of 45.5 million tonnes grading 1.81 g/t, representing 2.7 million ounces of gold. Complete mineral reserve and resource data for all Newmont mines and projects referenced in this presentation, including tonnes, grades, and ounces, as well as the assumptions on which the mineral reserves for Newmont are reported, are set out in Newmont's press release dated February 21, 2019 reporting its 2018 Reserves and Resources and its annual report on Form 10-K for the fiscal year ended December 31, 2018.

		GOLD MINERAL RESERVES								GOLD MINERAL RESOURCES											
		PROV	'EN		PROB/	ABLE	PRO	VEN & P	ROBABLE		MEASUR	ED		INDICA	TED		M&	I	INFERRED		
	_			-			-	<u> </u>		-		Contained	_			_			-		
	(000'c)	Grade	Contained ozs	Ionnes (000'c)	Grade	Contained ozs	I onnes	Grade	Contained ozs	Ionnes (000/c)	Grade	0ZS	Ionnes (000/c)	Grade	Contained ozs	Ionnes (000'c)	Grade	Contained ozs	(000'c)	Grade	Contained ozs
Carlin	26.100	4.73	3.970	181.100	1.46	8.490	207.200	1.87	12.460	1.900	5.07	310	101.500	1.39	4.530	104.400	1.44	4.840	11.900	2.74	1.050
Phoenix Lone Tree	15,600	0.64	320	120,800	0.65	2,530	136,400	0.65	2,850	6,400	0.51	100	96,800	0.49	1,530	103,200	0.49	1,630	14,500	0.64	300
Long Canyon	600	2.18	50	21,700	1.31	920	22,300	1.34	970	500	3.84	60	14,000	3.50	1,570	14,500	3.52	1,630	5,600	1.94	350
Twin Creeks	1,300	2.63	110	52,000	1.87	3,130	53,300	1.89	3,240	9,900	2.14	<u>680</u>	31,300	2.14	2,150	41,200	2.14	2,830	12,900	1.71	710
TR (25%)	3,000	13.62	1,310	2,500	<b>12.16</b>	960	5,500	12.97	2,270	1,000	7.70	240	800	8.22	210	1,800	7.93	450	600	<b>11.92</b>	240
TR (75%)	9,018	13.62	3,950	7,373	<b>12.16</b>	2,883	16,391	12.97	6,833	2,983	7.70	738	2,439	8.23	645	5,422	7.93	1,383	1,872	<b>11.93</b>	718
Goldstrike	55,514	3.65	6,513	12,381	5.05	2,012	67,895	3.91	8,525	3,572	6.75	775	4,592	5.80	857	8,164	6.22	1,632	1,817	8.11	474
South Arturo (60%)	2,257	3.20	232	2,006	2.79	180	4,263	3.01	412	3,596	1.06	122	10,229	1.04	342	13,825	1.04	464	1,140	1.31	48
Cortez	17,642	2.01	1,138	127,412	1.86	7,599	145,054	1.87	8,737	3,353	1.84	<i>198</i>	53,374	1.73	2,971	56,727	1.74	3,169	13,158	1.67	705
Goldrush				6,399	9.69	<i>1,993</i>	6,399	9.69	1,993				30,942	9.40	9,353	30,942	9.40	9,353	10,700	8.30	2,855
Barrick in Nevada	84,431	4.36	11,833	155,571	2.93	14,667	240,002	3.43	26,500	13,504	4.22	1,833	101,576	4.34	14,168	115,080	4.32	16,001	28,687	5.20	4,800
Newmont in Nevada	46,600	3.84	5,760	378,100	1.32	16,030	424,700	1.60	21,790	19,700	2.19	1,390	244,400	1.27	9,990	265,100	1.34	11,380	45,500	1.81	2,650
NEVADA GOLD MINES	131,031	4.18	17,593	533,671	1.79	30,697	664,702	2.26	48,290	33,204	3.02	3,223	345,976	2.17	24,158	380,180	2.24	27,381	74,187	3.12	7,450

Below is additional reserve and resource data in respect of certain of Nevada Gold Mines' properties.

Not Included in the JV			
Fourmile			





				GOLD	MINERA	RESERVES									GOLD MINERAL	RESOURCE	s				
		PROV	EN		PROBA	BLE	PRO	OVEN & P	ROBABLE		MEASURE	0		INDICATED			М&	1		INFERF	(ED
	Tonnes	Grade	Contained ozs	Tonnes	Grade	Contained ozs	Tonnes	Grade	Contained ozs	Tonnes	Grade	Contained ozs	Tonnes	Grade	Contained ozs	Tonnes	Grade	Contained ozs	Tonnes	Grade	Contained ozs
	(000's)	(gm/t)	(000's)	(000's)	(gm/t)	(000's)	(000's)	(gm/t)	(000's)	(000's)	(gm/t)	(000's)	(000's)	(gm/t)	(000's)	(000's)	(gm/t)	(000's)	(000's)	(gm/t)	(000's)
W Leeville	2,484	8.00	639	622	8.45	169	3,106	8.09	808	317	6.04	61	56	6.14	11	373	6.05	73	106	7.63	26
Turf	3,692	12.48	1,481	1,978	10.84	689	5,670	11.91	2,171	474	8.23	125	438	5.39	76	912	6.86	201	438	7.19	101
Four Corners	0	0.00	0	1,604	11.95	616	1,604	11.95	616	0	0.00	0	941	2.90	88	941	2.90	88	940	11.87	359
Pete Bajo	567	10.03	183	1,007	9.90	321	1,574	9.95	503	87	8.70	24	665	9.01	193	752	8.98	217	793	8.82	225
Carlin E/Full House	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0	0	0.00	0
Leeville Complex	6,743	10.62	2,303	5,211	10.72	1,796	11,954	10.66	4,099	877	7.48	211	2,100	5.44	367	2,977	6.04	579	2,277	9.71	711

2. Synergies (or NPV of synergies) as used in this presentation is a management estimate provided for illustrative purposes, and should not be considered a GAAP/IFRS or non-GAAP/non-IFRS financial measure. "Synergies" represent management's combined estimate of pre-tax synergies, supply chain efficiencies and cost improvements, as a result of the proposed joint venture that have been monetized and projected over a twenty year period for purposes of the estimation, applying a discount rate of 5 percent. Such estimates are necessarily imprecise and are based on numerous judgments and assumptions. Expected synergies is a "forward-looking statement" subject to risks, uncertainties and other factors which could cause actual synergies to differ from expected synergies

3. A Tier One gold asset is a mine with a stated mine life in excess of 10 years with annual production of at least five hundred thousand ounces of gold and total cash cost per ounce within the bottom half of Wood Mackenzie's cost curve tools (excluding state-owned and privately owned mines). Total cash cost per ounce is based on data from Wood Mackenzie as of August 31, 2018, except in respect of Barrick's mines where Barrick relied on its internal data which is more current and reliable. The Wood Mackenzie calculation of total cash cost per ounce may not be identical to the manner in which Barrick calculates comparable measures. Total cash cost per ounce is a non-GAAP financial performance measure with no standardized meaning under IFRS and therefore may not be comparable to similar measures presented by other issuers. Total cash cost per ounce is a nalternative to cost of sales or to other IFRS measures. Barrick believes that total cash cost per ounce is a useful indicator for investors and management of a mining company's performance as it provides an indication of a company's profitability and efficiency, the trends in cash costs as the company's operations mature, and a benchmark of performance to allow for comparison against other companies.

4. Cost of Sales estimates stated prior to any fair value adjustments relating to the creation of the joint venture and will be updated in due course once these adjustments have been finalized

5."Total cash costs" per ounce and "All-in sustaining costs" per ounce are non-GAAP financial performance measures. "Total cash costs" per ounce starts with cost of sales applicable to gold production, but excludes the impact of depreciation, the non-controlling interest of cost of sales, and includes by-product credits. "All-in sustaining costs" per ounce begin with "Total cash costs" per ounce and add further costs which reflect the additional costs of operating a mine, primarily sustaining capital expenditures, sustaining leases, general & administrative costs, minesite exploration and evaluation costs, and reclamation cost accretion and amortization. Barrick believes that the use of "total cash costs" per ounce and "all-in sustaining costs" per ounce will assist investors, analysts and other stakeholders in understanding the costs associated with producing gold, understanding the economics of gold mining, assessing our operating performance and also our ability to generate free cash flow from current operations and to generate free cash flow on an overall Company basis. "Total cash costs" per ounce and "All-in sustaining costs" per ounce are intended to provide additional information only and do not have any standardized meaning under IFRS. Although a standardized definition of all-in sustaining costs was published in 2013 by the World Gold Council (a market development organization for the gold production. The calculation of total cash costs is identical to ash costs with only a change in the naming convention of this non-GAAP measures should not be considered in isolation or as a substitute for measures prepared in accordance with IFRS. Further details on these non-GAAP measures are provided in the MD&A accompanying Barrick's financial statements filed from time to time on SEDAR at www.secdar.com and on EDGAR at www.sec.gov.

6. Guidance is based on a gold assumptions of \$1,250/oz, and oil price assumptions of \$65bbi for WTI and \$70bbi0 for Brent respectively.

7. See the Technical Report on the Turquoise Ridge mine, dated March 19, 2019, and filed on SEDAR at www.sedar.com and EDGAR at www.sec.gov on March 23, 2019.

8. See the Technical Report on the Cortez Joint Venture Operations, dated March 22, 2019, and filed on SEDAR at www.sedar.com and EDGAR at www.sec.gov on March 22, 2019.

### APPENDIX A – Leeville Complex Significant Intercepts



Core Drill Hole <sup>1</sup>	Azimuth	Dip	From (m)	To (m)	Width (m) <sup>2</sup>	Au (g/t)
	64.4	90 F	931.3	937.6	6.3	5.4
CGX-00059	04.1	-89.5	947	949.9	2.9	12.4
CGX-00008	30	-89	790	810.8	20.7	9.2
LUC-02716A	69	-78	97.6	109.1	11.6	22.2
CGX-00044			792.5	833	40.5	7.1
FCC-00151	349.9	-51.5	84	99.1	15.1	23.3
NHD-00277	340.6	75.4	463.4	479.4	16	7.7
RKX-00039	199.2	-85.3	481.3	491.6	9.8	16.5
			446.5	459	12.5	12.4
RKX-00012	80.3	-82	511.5	519.2	7.8	9.1
			532.5	540.3	7.8	6.8
NHD-00280	68.5	-89.7	951.3	956	4.7	9.1
TS-1015	0	-90	307.8	312.4	4.6	6.0
AGR-02702	224.6	-59.1	126.5	132.6	6.1	9.4
NHD-0099	0	-90	484.9	488	3.1	11.0
TARA-0268	88	-71	181.3	198	16.8	16.8
TARA-0304	265	-61	234.7	262.1	27	27
DPC-112	67	-57	335.6	355.1	16.8	16.8
DPC-241	71	-56	334.6	351.4	19.5	19.5

1. All intercepts calculated using a 4.8 g/t Au cutoff and are uncapped; minimum intercept width is 3.0 m; internal dilution is less than 3 m.

2. True width of intercepts are uncertain at this stage

The drilling results in this presentation have been prepared in accordance with National Instrument 43-101 – *Standards of Disclosure for Mineral Projects*. All drill hole assay information has been manually reviewed and approved by staff geologists and re-checked by the project manager. Sample preparation and analyses are conducted by an independent laboratory. Procedures are employed to ensure security of samples during their delivery from the drill rig to the laboratory. The quality assurance procedures, data verification and assay protocols used in connection with drilling and sampling on the Leeville property conform to industry accepted quality control methods.



1. All intercepts calculated using a 5 g/t Au cutoff and are uncapped; minimum intercept width is 0.8 m; internal dilution is less than 20% total width

2. True width of intercepts are uncertain at this stage

The drilling results in this presentation have been prepared in accordance with National Instrument 43-101 – *Standards of Disclosure for Mineral Projects*. All drill hole assay information has been manually reviewed and approved by staff geologists and re-checked by the project manager. Sample preparation and analyses are conducted by an independent laboratory. Procedures are employed to ensure security of samples during their delivery from the drill rig to the laboratory. The quality assurance procedures, data verification and assay protocols used in connection with drilling and sampling on the Goldrush/Fourmile property conform to industry accepted quality control methods.



Core Drill Hole <sup>1</sup>	Azimuth	Dip	Interval (m)	Width (m) <sup>2</sup>	Au (g/t)
GP0207W1	255	-69	536.7-561.3	22.1	12.7
TU02926	105	-7	83.8-118.3	30.6	18.8
TU01034	271	-50	111.9-153.0	41.1	27.4
TU00233	90	+9	86.9-102.1	15.2	7.2
TU02664	28	-60	388.6-398.1	7.9	8.3
TS1804C	292	-75	1009.0-1013.5	4.4	8.3
GP0331	255	-75	599.2-639.0	39.7	12.1
LHT150270	88	-45	92.9-134.1	41.1	6.9

1. All intercepts calculated using a 7 g/t Au cutoff and are uncapped; minimum intercept width is 0.8 m

2. True width of intercepts are uncertain at this stage

The drilling results in this presentation have been prepared in accordance with National Instrument 43-101 – *Standards of Disclosure for Mineral Projects*. All drill hole assay information has been manually reviewed and approved by staff geologists and re-checked by the project manager. Sample preparation and analyses are conducted by an independent laboratory. Procedures are employed to ensure security of samples during their delivery from the drill rig to the laboratory. The quality assurance procedures, data verification and assay protocols used in connection with drilling and sampling on the Turquoise Ridge property conform to industry accepted quality control methods.



Drill Hole <sup>1</sup>	Azimuth	Dip	Interval (m)	Width (m) <sup>2</sup>	Au (g/t)
TARA-0268	88	-71	181.3-198	16.8	6.7
TARA-0304	265	-61	234.7-262.1	27	4.3
DPC-0241	71	-56	335.6-355.1	16.8	24.5
DPC-0112	67	-57	334.6-351.4	19.5	29.9
GEN-01655	299	83	47.2-56.3	9.1	1.45
GEN-01654	93	73	61-67.1	6.1	3.6

1. Intercepts cutoff is variable function of the mineralization type (3 g/t Au for Deep Post and Tara; and 0.24% for Northstar/Frontier) and are uncapped; minimum intercept width is 0.8 m; internal dilution is less than 3 m.

2. True width of intercepts are uncertain at this stage

The drilling results in this presentation have been prepared in accordance with National Instrument 43-101 – *Standards of Disclosure for Mineral Projects*. All drill hole assay information has been manually reviewed and approved by staff geologists and re-checked by the project manager. Sample preparation and analyses are conducted by an independent laboratory. Procedures are employed to ensure security of samples during their delivery from the drill rig to the laboratory. The quality assurance procedures, data verification and assay protocols used in connection with drilling and sampling on the Carlin property conform to industry accepted quality control methods.

### APPENDIX E – Little Boulder Basin Intercepts<sup>1</sup>

	Historic Drill Results		
Drill Hole <sup>2</sup>	Interval (m)	Width (m) <sup>3</sup>	Au (g/t)
	1293.9 - 1296.2	2.3	12.4
	1322.5 - 1324.3	1.8	5.4
	1854.7 - 1862.3	7.6	17.8
LBB-0100	1871.5 - 1874.5	3	8.1
	1876.0 - 1877.5	1.5	5.3
	1882.1 - 1885.2	3.1	5.2
	1888.2 - 1889.7	1.5	5.3
	1892.2 - 1893.4	1.2	7
LBB-0102	1937.9 - 1943.8	5.9	26.6
	1949.8 - 1956.2	6.4	8.8
	1958.9 - 1960.4	1.5	6.4
	1994.3 - 1996.1	1.8	11.3



- All intercepts calculated using a 5 g/t Au cutoff and are uncapped; minimum intercept width is 0.8 m; internal dilution is less than 20% total width
- 2. Both holes were collared vertical
- 3. True width of intercepts are uncertain at this stage

The drilling results for the Little Boulder Basin property contained in this presentation have been prepared in accordance with National Instrument 43-101 - Standards of Disclosure for Mineral Projects. All drill hole assay information has been manually reviewed and approved by staff geologists and re-checked by the project manager. Sample preparation and analyses are conducted by an independent laboratory. Procedures are employed to ensure security of samples during their delivery from the drill rig to the laboratory. The quality assurance procedures, data verification and assay protocols used in connection with drilling and sampling conform to industry accepted quality control methods.

## APPENDIX F – Fourmile\* Significant Intercepts<sup>1</sup>

			Drill Results from Q3	2019 to date	
Core Drill Hole <sup>2</sup>	Azimuth	Din	Interval (m)	Width (m) <sup>3</sup>	Δu (g/t)
noie	Azimati	Бір	1208 2 - 1209 7	1 5	8
			1238 1 - 1239 3	1.3	73.4
			1230.1 1235.5	10.7	24.8
FM19-	18	-74	12/3.0 1230.3	1 5	8 1
11DW1 <sup>4</sup>	10	74	1210 5 - 1221 0	1.5	5
			12/12 Q 12/12 A	1.5	10 /
			1251 5 1257 6	4.0	45.4
			017 E 020 E	0.1	21.2
			017.3 - 020.3 026.0 027 E	1 5	0.1
FM19-37D	251	-80	020.0 - 027.3	1.5	9.1
			030.0 - 041.3	10.7	8.0 10 7
	250	OF		5.0	19.7
FIVI19-20D	500	-00	771.0 - 775.7	4.7 21 F	9.0 28 F
			074.0 - 090.5	21.5	20.5
	100	05	900.5 - 904.5	4	38.4
FIVI19-39D	163	-85	906.7 - 907.8	1.1	11.2
			913.5 - 923.4	9.9	28.1
	100	00	942.8 - 945.8	3	1.2
FM19-41D	108	-83			no intercepts > 5 gpt Au
FM19-42D	349	-72		4.5	no intercepts > 5 gpt Au
		_	764.7 - 766.2	1.5	22.5
FM19-43D	92	-81	949.9 - 956.9	7.0	67.0
			1078.2 - 1079.4	1.2	8.4
FM19-44D	172	-86	728.9 - 730.3	1.4	7.1
FM19-45D	128	-81	692.7 - 697.4	4.7	8.5
	120	01	701.8 - 715.7	13.9	11.7



- All intercepts calculated using a 5 g/t Au cutoff and are uncapped; minimum intercept width is 0.8 m; internal dilution is less than 20% total width
- Fourmile drill hole nomenclature: FM (Fourmile) followed by the year (19 for 2019)
- 3. True width of intercepts are uncertain at this stage
- 4. Partial results received
- 5. Hole terminated in mineralization

The drilling results for the Fourmile property contained in this presentation have been prepared in accordance with National Instrument 43-101 - Standards of Disclosure for Mineral Projects. All drill hole assay information has been manually reviewed and approved by staff geologists and re-checked by the project manager. Sample preparation and analyses are conducted by an independent laboratory. Procedures are employed to ensure security of samples during their delivery from the drill rig to the laboratory. The quality assurance procedures, data verification and assay protocols used in connection with drilling and sampling on the Fourmile property conform to industry accepted quality control methods.

# APPENDIX F – Fourmile\* Significant Intercepts<sup>1</sup>



			Orill Results from Q3	2019 to date		1.
Core Drill Hole	Azimuth	Din	Interval (m)	Width (m)	Δu (g/t)	
	ALIMATI	Dip	723.9 - 725.4	1.5	12.0	2
FM19-46D	156	-83	841.6 - 867.2 880.8 - 884.8	25.6 4.0	80.9 18.8	2.
			888.8 - 890.3	1.5	8.5	3.
			894.6 - 923.6 761.1 - 764.3	29.0 3.2	54.6 8	Д
FM19-47D	107	-83	951.2 - 961.0	9.8	48.5	5.
FM19-48D	50	-86	857.7 - 860.7	3	16.8	<b>T</b> L .
FM19-49D <sup>5</sup>	303	-81	828 - 829.5	1.5	5.1	con
			683.1 - 691.0	7.9	10.9	pre
FM19-51D	93	-83	694.0 - 697.1 704 7 - 715 1	3.1 10.4	13.2	Insi Dis
			696.7 - 698.1	1.4	5.3	ass
FM19-52D	18	-83	722.7 - 730.0	7.3 5.3	35.9 134 6	and
			762.3 - 763.8	1.5	16.1	Sar con
FM19-53D	149	-74	739.1 - 742.1	3	14.1	Pro
FM19-54D	92	-74	842.5 -845.2	2.7	19.5	of s
			707.0 - 714.0	7	47.6	rig
FM19-55D	23	-84	716.6 - 718.7	2.1	18.2	pro
			786.1 - 791.6	5.5	53.6	and

- All intercepts calculated using a 5 g/t Au cutoff and are uncapped; minimum intercept width is 0.8 m; internal dilution is less than 20% total width
- Fourmile drill hole nomenclature: FM (Fourmile) followed by the year (19 for 2019)
- True width of intercepts are uncertain at this stage
- 4. Partial results received
- . Hole terminated in mineralization

drilling results for the Fourmile property tained in this presentation have been pared in accordance with National rument 43-101 – Standards of closure for Mineral Projects. All drill hole ay information has been manually ewed and approved by staff geologists re-checked by the project manager. nple preparation and analyses are ducted by an independent laboratory. cedures are employed to ensure security amples during their delivery from the drill to the laboratory. The quality assurance cedures, data verification and assay tocols used in connection with drilling sampling on the Fourmile property conform to industry accepted quality control methods.

### APPENDIX F – Fourmile\* Significant Intercepts<sup>1</sup>



		Dril	Drill Results from Q3 2019 to date							
Core Drill Hole	Azimuth	Dip	Interval (m)	Width (m)	Au (g/t)					
FM19-56D	109	-85	687.6 - 689.1 696.8 - 698.3 867.5 - 875.1 881.2 - 882.6	1.5 1.5 7.6 1.4	9.9 13 48.5 6.9	2				
FM19-58D	200	-87	776.9 - 779.9 793.1 - 803.8	3 10.7	9.6 38	4				
FM19-59D	39	-77	546.9 - 548.0 566.3 - 586.4	1.1 20.1	5.4 16.4	5				
FM19-60D	144	-78	703.9 - 705.6 719.6 - 724.5 729.8 - 731.2	1.7 4.9 1.4	8.3 10.2 5.5	T C P				
FM19-63D	93	-84	723.6 - 725.7 727.0 - 728.5 788.8 - 810.1 814.7 - 816.2	2.1 1.5 21.3 1.5	9 5.2 35.8 12.9	lr E a re				

cutoff and are uncapped; minimum intercept width is 0.8 m; internal dilution is less than 20% total width . Fourmile drill hole nomenclature: FM (Fourmile) followed by the year (19 for 2019) True width of intercepts are uncertain at this stage . Partial results received . Hole terminated in mineralization The drilling results for the Fourmile property ontained in this presentation have been repared in accordance with National nstrument 43-101 – Standards of Disclosure for Mineral Projects. All drill hole ssay information has been manually eviewed and approved by staff geologists and re-checked by the project manager. Sample preparation and analyses are conducted by an independent laboratory. Procedures are employed to ensure security of samples during their delivery from the drill rig to the laboratory. The quality assurance procedures, data verification and assay protocols used in connection with drilling and sampling on the Fourmile property conform to industry accepted quality control methods.

All intercepts calculated using a 5 g/t Au
#### **Nevada Gold Mines**



Notes: a. Excluded from Nevada Gold Mines \*all figures in metric units

## Twin Creeks Geology Overlook









#### Autoclave





#### Roaster





Mill 5





Mill 6





# Leeville Underground Mine





# Leeville - Paste Backfill



#### **Pastefill Components**

- Mill 4 Tailings
  - Reclaim tailings during the summer months and stockpile for the year
- Limestone Aggregate
  - Limestone from open pit
  - 12.7 mm minus product
- Paste Plant
  - Commissioned April 2016
- Underground Reticulation
  - Two boreholes from surface to underground
    - LSL-04 and LSL-05
  - $\checkmark$  Redundancy from LSL-04  $\rightarrow$  LSL-05
  - ~8,250 meters of pipe installed underground





- Vent Shaft (#1) intakes 0.8M cfm
- Production Shaft (#2) intakes 0.9M cfm (primary escape)
  - Air is heated in the winter by discharged mine water and/or natural gas heaters
- Turf Shaft (#3) exhausts 1.9M cfm
  - Four 3,000 hp centrifugal fans Currently only 2 running at any one time
- Carlin East raise intakes 0.2M cfm
- Pete Bajo connection drift intakes 0.05M cfm
  (secondary escape)



### Leeville - Support Mechanization







i. Refer to Endnote #1 ii. Fourmile is excluded from NGM



Fourmile is excluded from Nevada Gold Mines See Appendix F for additional details including assay results for the significant intercepts



i. See Appendix E for additional details including assay results for the significant intercepts