

CAUTIONARY STATEMENTS



CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING INFORMATION

This presentation (this "**Presentation**") contains forward-looking information and forward-looking statements (together, "**forward-looking statements**") within the meaning of applicable Canadian securities laws and the United States Private Securities Litigation Reform Act of 1995. All statements, other than statements of historical fact, are forward-looking statements and are based on expectations, estimates and projections as at the date of this Presentation. Any statement that involves discussions with respect to predictions, expectations, beliefs, plans, projections, objectives, assumptions, future events or performance (often but not always using phrases such as "expects", or "does not expect", "is expected", "anticipates" or "does not anticipate", "plans", "budget", "scheduled", "forecasts", "estimates", "believes" or "intends" or variations of such words and phrases or stating that certain actions, events or results "may" or "could", "would", "might" or "will" be taken to occur or be achieved) are not statements of historical fact and may be forward-looking statements.

In this Presentation, forward-looking statements relate, among other things: the ability of Osisko Development Corp. ("Osisko Development", the "Company" or "ODV") to achieve the results in the Cariboo FS (as defined herein); the assumptions, qualifications and limitations of the results of the Cariboo FS, including the economic results (NPV, IRR, FCF and AISC calculations) and the sensitivity analysis of the variables included therein; LOM estimates; production capacity and expectations; expected mining methods; Cariboo being a large-scale, cash producing, long-life and profitable gold mine (or any of those things); capital cost estimates; operating cost estimates; AISC gold prices and exchange rate assumptions; mining and mine design expectations; infrastructure assumptions; permitting, environmental and closure expectations (timing and if at all); steps required to obtain an EAC; cooperation of stakeholders, community and partners; royalties; any potential value enhancement opportunities; the benefits (if any) of the sorting facility on reducing processing costs, increasing gold recoveries and reducing waste materials; our ability to define grade continuity within the mineralized vein corridors; future gold productions; the ability of exploration results (including drilling) to accurately predict mineral resources to ur properties; the ability of Osisko Development to expand mineral resource beyond current mineral resource estimates; the ability of our mining operations; o

Although Osisko Development believes the expectations expressed in such forward-looking statements are based on reasonable assumptions, such statements involve known and unknown risks, uncertainties and other factors and are not guarantees of future performance and actual results may accordingly differ materially from those in forward-looking statements. These uncertainties and risks relate, among other things, to: the Company's ability to achieve the results in the Cariboo FS; the realization of the assumptions, limitations, qualifications and sensitivities in the Cariboo FS; the ability of exploration activities (including drill results) to accurately predict mineralization; the ability to realize upon geological modelling; the ability of Osisko Development to complete further exploration activities, including drilling; property interests in the assets of Osisko Development; the ability of the results of exploration activities; fluctuations in spot and forward prices of gold, silver, base metals or certain other commodities; fluctuations in currency markets (such as the Canadian dollar exchange rate); change in international, national and local government, legislation, taxation, controls, regulations and political or economic developments; risks and hazards associated with the business of mineral exploration, development amining (including environmental hazards, industrial accidents, unusual or unexpected formations pressures, cave-ins and flooding); inability to obtain adequate insurance to cover risks and hazards; the presence of laws and regulations that may impose restrictions on mining; employee relations; relationships with and claims by local communities and indigenous populations; availability of increasing costs associated with mining inputs and labour; the speculative nature of mineral exploration and development (including the risks of obtaining necessary licenses, permits and approvals from government authorities); and title to properties. However, there can be no assurance that forward-looking st

For additional information with respect to these and other factors and assumptions underlying the forward-looking statements in this news release concerning Osisko Development, please refer to the public disclosure record of Osisko Development, including the restated annual information form of Osisko Development for the year ended December 31, 2021 as amended, and the most recent annual and interim financial statements and related management's discussion and analysis of Osisko Development, which are available on SEDAR (www.secagov) under Osisko Development's issuer profile. The forward-looking statements in this news release reflect management's expectations as of the date of this news release and are subject to change after such date. Osisko Development disclaims any intention or obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, other than as required by law.

This Presentation does not constitute an offer to sell or a solicitation of an offer to buy any securities in the United States or any other jurisdiction. No securities may be offered or sold in the United States or in any other jurisdiction in which such offer or sale would be unlawful prior to registration under the U.S. Securities Act of 1933 or an exemption therefrom or qualification under the securities laws of such other jurisdiction or an exemption therefrom.

Unless otherwise noted, this Presentation has been prepared based on information available as of January 3, 2023. All currency references are to Canadian dollars, unless specified otherwise.

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NON-IFRS MEASURES

ODV used in this Presentation, certain non-IFRS measures including, "all-in sustaining cost" or "AISC" and "total cash cost". All-in sustaining cost per gold ounce is defined as production costs less silver sales plus general and administrative, exploration, other expenses and sustaining capital expenditures divided by gold ounces. Cash costs are a non-IFRS measure reported by ODV on an ounces of gold sold basis. Cash costs include mining, processing, refining, general and administration costs and royalties but excludes depreciation, income taxes, capital and exploration costs for the life of the mine. The Company believes that such measures provide investors with an alternative view to evaluate the performance of the Company. Non-IFRS measures do not have any standardized meaning prescribed under International Financial Reporting Standards ("IFRS"). Therefore they may not be comparable to similar measures employed by other companies. The data is intended to provide additional information and should not be considered in isolation or as a substitute for measures of performance prepared in accordance with IFRS. See the section entitled "Non-IFRS Measures" in the January 3, 2023 press release of ODV, and the Cariboo FS, which will be made available on SEDAR (https://osiskodev.com/cariboo-gold-project/) within 45-days.

CAUTIONARY NOTE TO U.S. INVESTORS

Osisko Development is subject to the reporting requirements of the applicable Canadian securities laws, and as a result, reports information regarding mineral properties, mineralization and estimates of mineral reserves and mineral resources in accordance with Canadian reporting requirements, which are governed by National Instrument 43-101 – Standards of Disclosure for Mineral Projects ("NI 43-101"). NI 43-101 differs significantly from the disclosure requirements of the United States Securities and Exchange Commission (the "SEC") generally applicable to US companies. As such, the information included in this Presentation concerning mineral properties, mineralization and estimates of mineral reserves and mineral resources is not comparable to similar information made public by U.S. companies subject to the reporting and disclosure requirements of the SEC.

CAUTIONARY NOTE REGARDING MINERAL RESERVE AND MINERAL RESOURCE ESTIMATES

This Presentation uses the terms measured mineral resources, indicated mineral resources, and inferred mineral resources as a relative measure of the level of confidence in the resource estimate. Readers are cautioned that mineral resources are not economic mineral reserves and that the economic viability of mineral resources that are not mineral reserves has not been demonstrated. The estimate of mineral resources may be materially affected by geology, environmental, permitting, legal, title, socio-political, marketing, or other relevant issues. It cannot be assumed that all or any part of an inferred mineral resource will ever be upgraded to the category of indicated mineral resource or measured mineral resource. The mineral resource estimate is classified in accordance with the *Canadian Institute of Mining, Metallurgy and Petroleum's CIM Definition Standards on Mineral Resources and Mineral Reserves* adopted in 2019 and incorporated by reference into NI 43-101. Under Canadian rules, estimates of inferred mineral resources may not form the basis of feasibility studies or economic studies except for a preliminary economic assessment as defined under NI 43-101. Readers are cautioned not to assume that further work on the stated resources will lead to mineral reserves that can be mined economically.

CAUTION REGARDING MINERAL RESOURCES

This Presentation uses the terms measured, indicated, and inferred mineral resources as a relative measure of the level of confidence in the resource estimate. Readers are cautioned that mineral resources are not economic mineral reserves and that the economic viability of mineral resources that are not mineral reserves has not been demonstrated. The estimate of mineral resources may be materially affected by geology, environmental, permitting, legal, title, socio-political, marketing, or other relevant issues. It cannot be assumed that all or any part of an inferred mineral resource will ever be upgraded to an indicated or measured mineral resource category. The mineral resource estimate is classified in accordance with the Canadian Institute of Mining, Metallurgy and Petroleum's "CIM Definition Standards on Mineral Resources and Mineral Reserves" incorporated by reference into NI 43-101. Under Canadian rules, estimates of inferred mineral resources may not form the basis of feasibility or pre-feasibility studies or economic studies except for a preliminary economic assessment as defined under NI 43-101. Readers are cautioned not to assume that further work on the stated resources will lead to mineral reserves that can be mined economically.

CAUTION REGARDING INFERRED MINERAL RESOURCES

Readers are cautioned that the Cariboo PEA, being a preliminary economic assessment (within the meaning of NI 43-101), is preliminary in nature and includes inferred mineral resources that are considered too speculative geologically to have economic consideration applied to them that would enable them to be categorized as mineral reserves. There is no certainty that the preliminary economic assessment (within the meaning of NI 43-101) will be realized. Furthermore, the Cariboo PEA has been superseded by the Cariboo FS as the current technical report in respect of the Cariboo Project for purposes of NI 43-101.

CAUTIONARY STATEMENTS



SCIENTIFIC AND TECHNICAL INFORMATION

The scientific and technical information in this Presentation relating to the Cariboo Gold Project is supported by a technical report entitled "NI 43-101 Technical Report – Feasibility Study for the Cariboo Gold Project" which was prepared for Osisko Development by BBA Engineering Ltd. with contributions from several independent consulting firms, including Falkirk Environmental Consultants Ltd., Golder Associates Ltd, InnovExplo Inc., JDS Energy and Mining Inc., KCC Geoconsulting Inc., Klohn Crippen Berger Ltd., SRK Consulting (Canada) Inc., and WSP USA Inc. (the "Cariboo FS"). Each author of the Cariboo FS is a "qualified person" within the meaning of NI 43-101 and considered to be "independent" of Osisko Development for purposes of Section 1.5 of NI 43-101. Please see the full text of the Cariboo FS for assumptions, qualifications and limitations relating to the disclosure about the Cariboo Gold Project.

An electronic copy of the Cariboo FS will be made available on SEDAR (www.sedar.com) under Osisko Development's issuer profile and on Osisko Development's corporate website (https://osiskodev.com/cariboo-gold-project/) within 45-days of the January 3, 2023 press release of ODV.

The Cariboo FS supersedes the technical report entitled "NI 43-101 Technical Report – Preliminary Economic Assessment for the Cariboo Gold Project" dated June 22, 2022 (with an effective date of May 24, 2022) (the "Cariboo PEA") as the current technical report in respect of the Cariboo Project for purposes of NI 43-101. Therefore, the Cariboo PEA should no longer be relied upon.

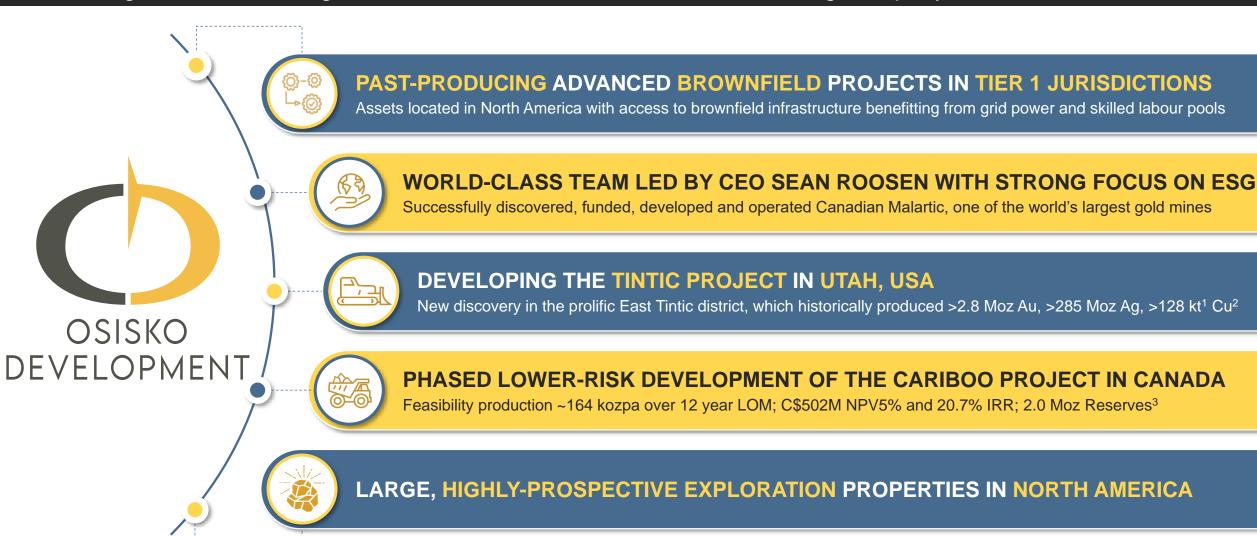
QUALIFIED PERSONS

Maggie Layman, P.Geo, Vice President Exploration of Osisko Development, and Mr. François Vézina, ing., P.Eng., MBA, Senior Vice President, Project Development, Technical Services and Environment of Osisko Development Corp., each of whom is a "qualified person" for purposes of NI 43-101, have reviewed and approved the scientific and technical information in this Presentation.

INVESTMENT HIGHLIGHTS



Building Toward Becoming a Premier North American Mid-tier Gold Mining Company



EXECUTING ON OUR STRATEGY



Path to Building an Intermediate Gold Producer

2023 MILESTONES

2023 YEAR-END STATUS

2024+ STATUS

JUNIOR PRODUCER

INTERMEDIATE PRODUCER

IN CONSTRUCTION AT LOW CAPEX TIER I ASSET (SCALE & JURISDICTION)

PRODUCING ASSET

WITH DEMONSTRATED UPSIDE

EXPLORATION POTENTIAL CONVERTED INTO ECONOMIC POTENTIAL

CARIBOO GOLD (BC, CANADA)

EA PROCESS COMPLETED

LAUNCH **PROJECT FINANCING**

COMPLETE PERMITTING

SHOVEL READY / **FINANCE & BUILD**

PRODUCING ASSET WITH

SIGNIFICANT UPSIDE

POTENTIAL

TINTIC PROJECT -TRIXIE (UTAH, USA)

INITIAL RESOURCE **ESTIMATE**

DECLINE FROM SURFACE

RAMP MINING



UP TO BULK



ADDITIONAL UPSIDE (ALL)

TINTIC **TRIXIE EXPLORATION EXPLORATION**

TINTIC **REGIONAL** **CARIBOO BULK SAMPLE**

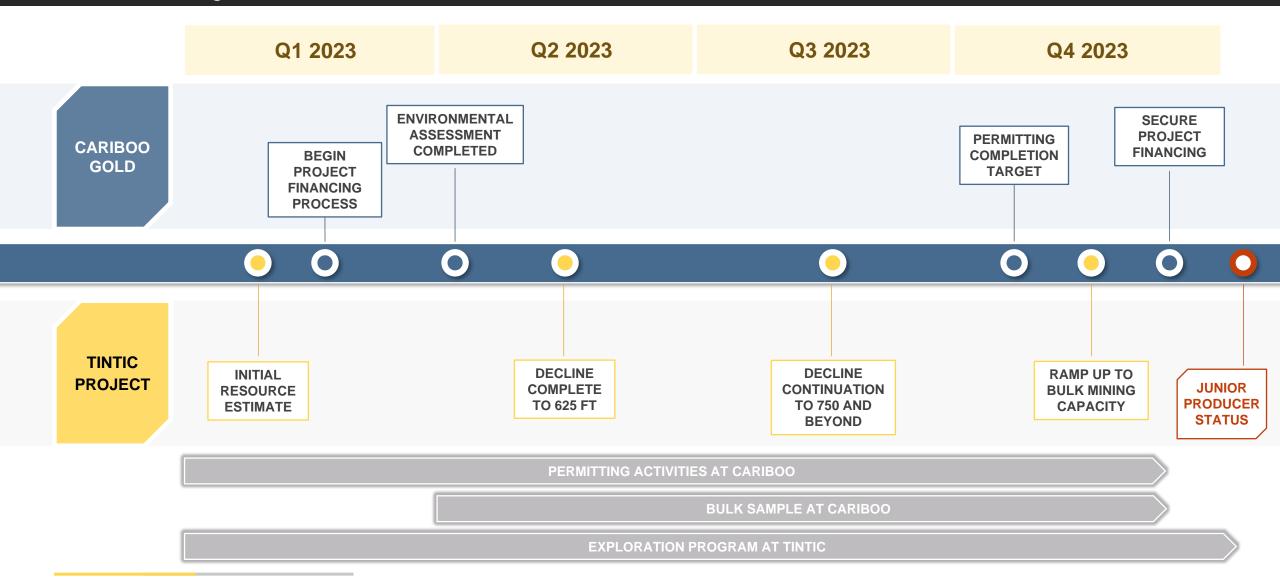
POTENTIALLY SIGNIFICANT VALUE CREATING INITIATIVES

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EXECUTING ON OUR STRATEGY – 2023 IN FOCUS



Path to Building an Intermediate Gold Producer



CARIBOO FEASIBILITY STUDY AT A GLANCE¹



MINE LIFE

12 YEARS

Phase 1 (1-3); Phase 2 (4-12)

FIRST PRODUCTION

2024 (Phase 1)

2027 (Phase 2)

INITIAL CAPITAL

C\$137.3 M

Expansion C\$451.1 M

TOTAL GOLD RECOVERED¹

1.87 MOZ

2.03 Moz Probable Reserves

PRODUCTION

(LOM Avg.)

~164,000 oz/yr

LOM AISC²

US\$968/oz

US\$886/oz (Phase 2)

NPV5% | IRR

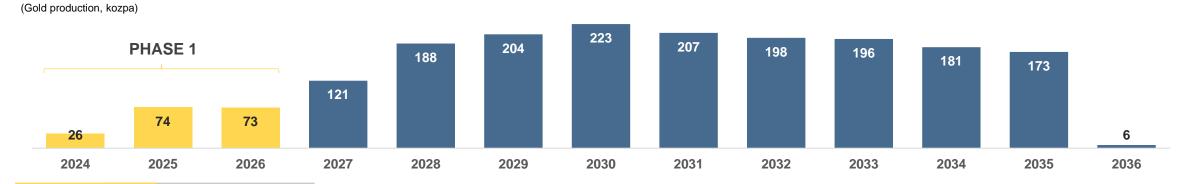
(US\$1,700/oz Au, after-tax)

C\$502 M | 20.7%

RESOURCES¹

1.57 MOZ M&I 1.71 MOZ Inferred

SCALABLE PRODUCTION PROFILE WITH POTENTIAL FOR INCREMENTAL GROWTH



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^{1.} Refer to ODV news release dated January 3, 2023 and slides 31 and 32 for further details. The Probable Mineral Reserve consists of 2.031 Moz Au in 16.703 Mt at a grade of 3.78 g/t Au; the Mineral Resource includes in the Measured category, 8,000 ounces ("koz") Au in 47,000 tonnes ("kt") grading 5.06 g/t Au; in Indicated, 1.564 Moz Au in 14.635 Mt grading 3.32 g/t Au, in Inferred, 1.712 Moz Au in 15.470 Mt grading 3.44 g/t Au. Measured and indicated resources are exclusive of mineral reserves. 2. This is a non-IFRS measure. Refer to "Non-IFRS Financial Measures" on page 3.

CARIBOO 2023 FEASIBILITY STUDY HIGHLIGHTS



FS demonstrates that Cariboo will be a large-scale, long-life and profitable gold mine

SCALABLE PHASED **DEVELOPMENT**

LOW INITIAL CAPITAL OF \$137M

INITIAL 12 YEAR MINE LIFE

Minimizing exposure to development risk with flexibility to scale up

Phase 1: 1,500 tpd operation at ~73 koz / year (first 3 years)

Phase 2: 4,900 tpd with UG development and production increase to ~194 koz / year

First gold pour expected in Q3 2024

~164 koz / yr LOM Avg.

BULK TONNAGE UG MINING WITH ORE SORTING

MINIMIZING COST & **ENVIRONMENTAL FOOTPRINT**

- Deploying highly mechanized, low-cost, bulk tonnage mining methods
- Ore sorting facility expected to significantly improve processed grades, reduce processing volumes, reduce energy costs, reduce water usage and tailings volumes
- Mining and processing designed to minimize overall environmental and carbon footprint

ACCESS & INFRASTRUCTURE: A KEY DIFFERENTIATOR AMONG SIMILAR STAGE PROJECTS IN **CANADA**

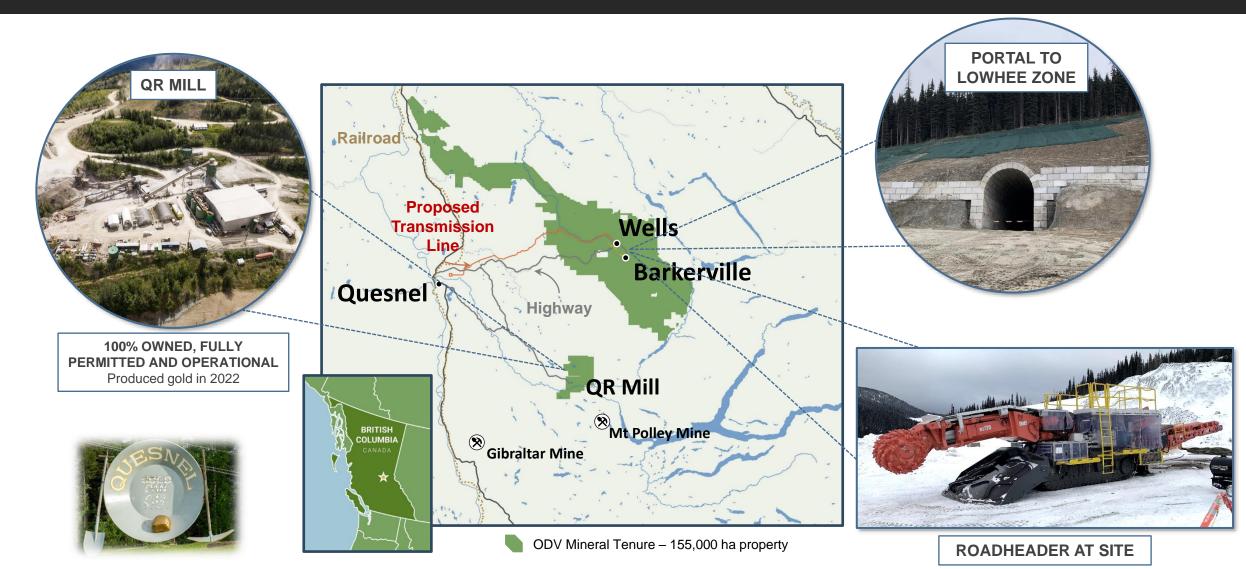
- Property accessible via Highway 26 with proximity to the CN Railway
- Located near major towns with access to skilled labour pools
- Plugged into the BC Hydro grid with kWh costs ranging between 6.4¢-7.8¢
- Existing wholly-owned QR mill and fully permitted milling/tailings facility ~100 km from minesite

SIGNIFICANT UPSIDE POTENTIAL **BEYOND BASE CASE**

- Average depth of defined mineralization ~350 meters and remains open at depth anomalous gold values at current depth of ~800 meters
- Potential to convert additional inferred resources located adjacent to reserve blocks at minimal incremental developmental cost

LOCATION, LOCATION, LOCATION ...





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CARIBOO 2023 FEASIBILITY STUDY SUMMARY



SUMMARY OPERATING RESULTS¹

| | | Phase 1 (2024 – 2026) | Phase 2 (2027 – 2036) | LOM (12 years) |
|-------------------------------|----------------|------------------------------|------------------------------|--------------------------|
| Ore Mined | Mt | 1.5 | 15.2 | 16.7 |
| Throughput | tpd | 1,500 | 4,900 | 4,056 |
| Average Grade | g/t Au | 4.43 | 3.72 | 3.78 |
| Average Recovery | % | 93.6% | 91.8% | 92.0% |
| Gold Production | koz | 205 | 1,663 | 1,869 |
| Avg. Gold Production | koz/yr | 73 | 194 | 164 |
| Operating Costs | C\$/t mined | \$170 | \$96 | \$103 |
| Initial / Expansion Capex | C\$M | \$137 | \$451 | \$588 |
| Sustaining Capex | C\$M | \$134 | \$332 | \$467 |
| Total Cash Costs ² | US\$/oz | \$1,149 | \$748 | \$792 |
| AISC ² | US\$/oz | \$1,634 | \$886 | \$968 |

SUMMARY ECONOMIC RESULTS¹ (US\$1,700/OZ AU)

| | | LOM (12 years) |
|---|-----------|-------------------|
| Total Revenue | C\$M | \$4,126 |
| Cumulative Cash Flow (pre-tax) ² | C\$M | \$1,192 |
| Average Annual CF (pre-tax) ² | C\$M/year | \$104 |
| Total Taxes Paid | C\$M | \$291 |
| Cumulative FCF (after-tax) ² | C\$M | \$901 |
| Average Annual FCF (after-tax) ² | C\$M/year | \$79 |

| | | PRE-TAX | AFTER-TAX |
|-------------------------------|------|---------|-----------|
| Net Present Value (NPV5%) | С\$М | \$691 | \$502 |
| Internal Rate of Return (IRR) | % | 24.4% | 20.7% |

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^{1.} Refer to ODV news release dated January 3, 2023.

^{2.} This is a non-IFRS measure. Refer to "Non-IFRS Financial Measures" on page 3.

CARIBOO: RESERVES AND RESOURCES





^{1.} Refer to ODV news release dated May 24, 2022 and the technical report filed in relation thereto a description of this historic estimate. ODV believes this historic estimate continues to be reliable and relevant to understanding the progress to the current understanding of the project geology. The 2023 Feasibility supersedes this historic resource. A qualified person has not done sufficient work to classify the historical estimate as current mineral reserves and the issuer is not treating the historical estimate as current mineral reserves or mineral reserves. The historic estimate consisted of a Measured Resource of 8 koz Au (47 kt grading 5.1 g/t Au) and an Indicated Resource of 3.46 Moz Au (27 Mt grading 4.0 g/t Au) and 14.4 Mt at a grade of 3.5 g/t Au for a total of 1.6 Moz in the Inferred category.

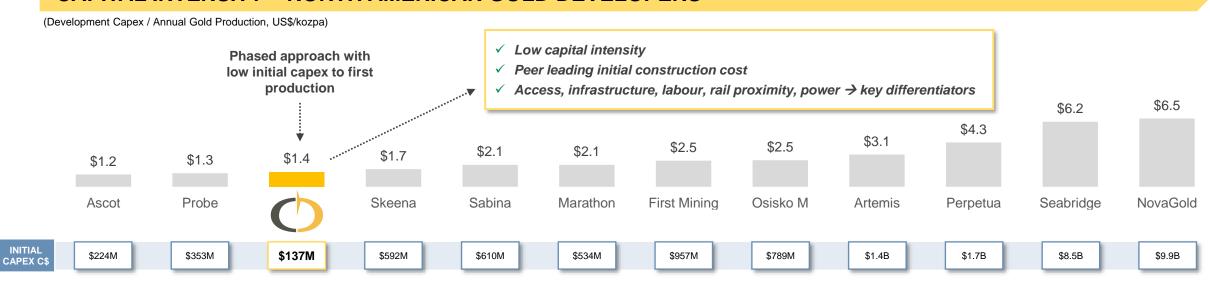
2. Refer to ODV news release dated January 3, 2023 and slides 31 and 32 for further details. The Probable Mineral Reserve consists of 2.031 Moz Au in 16.703 Mt at a grade of 3.78 g/t Au; the Mineral Resource includes in the Measured category, 8 koz Au in 47 kt grading 5.06 g/t Au; in Indicated, 1.564 Moz Au in 14.635 Mt grading 3.32 g/t Au, in Inferred, 1.712 Moz Au in 15.470 Mt grading 3.44 g/t Au. Measured and indicated resources are exclusive of mineral reserves.

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CARIBOO – LOW CAPITAL INTENSITY & ADVANCED VERSUS PEERS



CAPITAL INTENSITY - NORTH AMERICAN GOLD DEVELOPERS



ESTIMATED FIRST PRODUCTION – NORTH AMERICAN GOLD DEVELOPERS

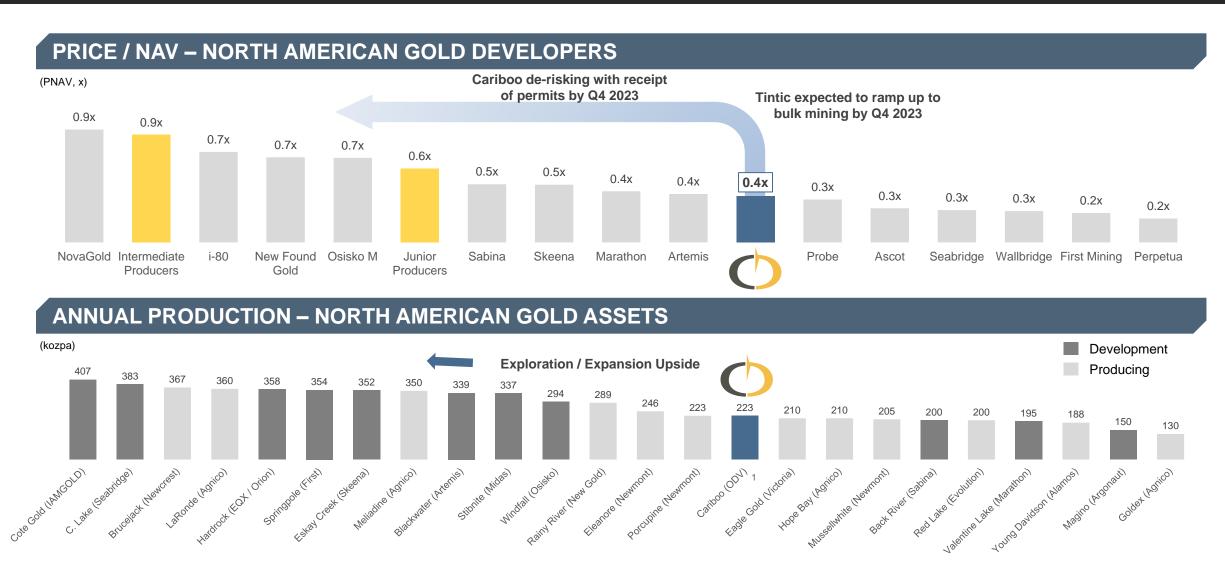


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SIGNIFICANT RE-RATE POTENTIAL

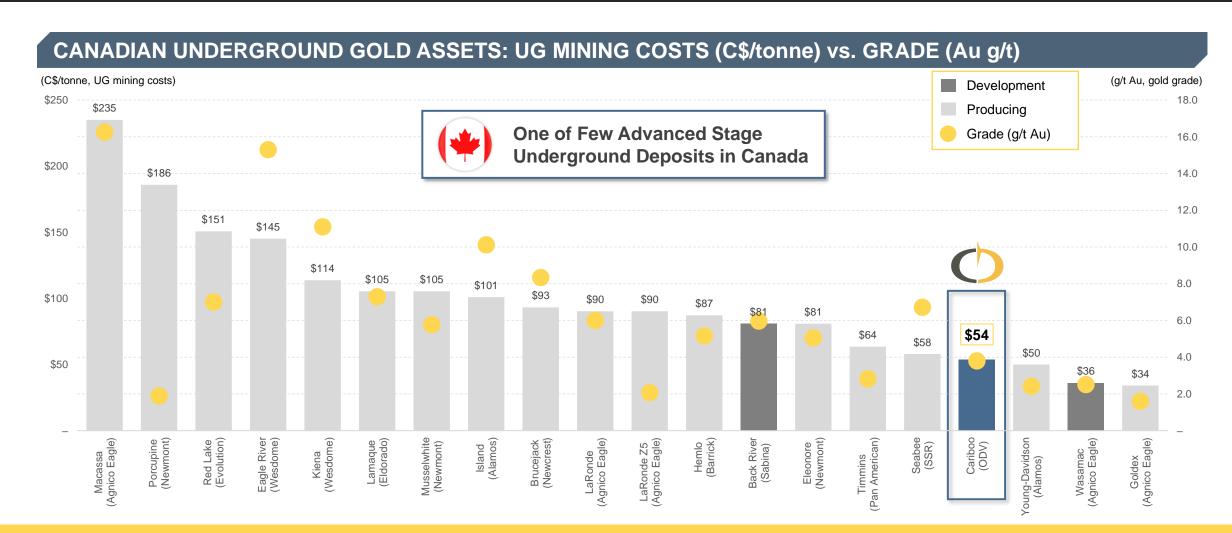


As Projects De-Risk and Production Scales Up



CARIBOO BENCHMARKING: CANADIAN UNDERGROUND MINES





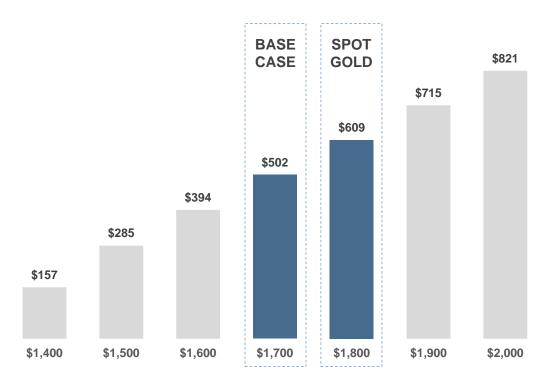
MAJORITY OF PRODUCING UNDERGROUND MINES IN CANADA OWNED BY MAJORS

CARIBOO GOLD PROJECT: NPV & IRR SENSITIVITY ANALYSIS

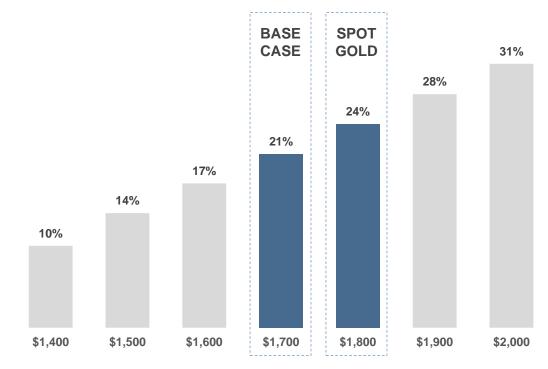


NPV5% SENSITIVITY | AFTER-TAX (C\$M)¹

IRR SENSITIVITY | AFTER-TAX (%)1



GOLD PRICE ASSUMPTION (US\$/oz)



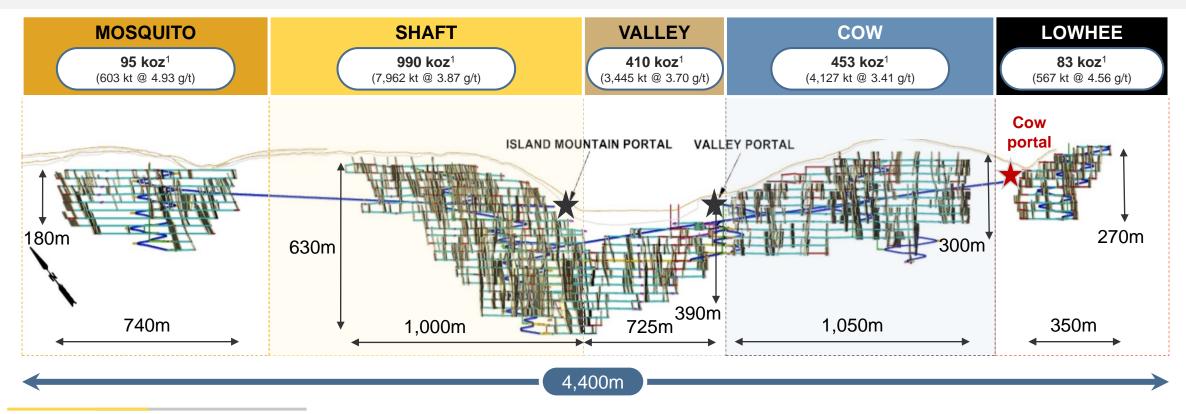
GOLD PRICE ASSUMPTION (US\$/oz)

MINE DESIGN SUMMARY



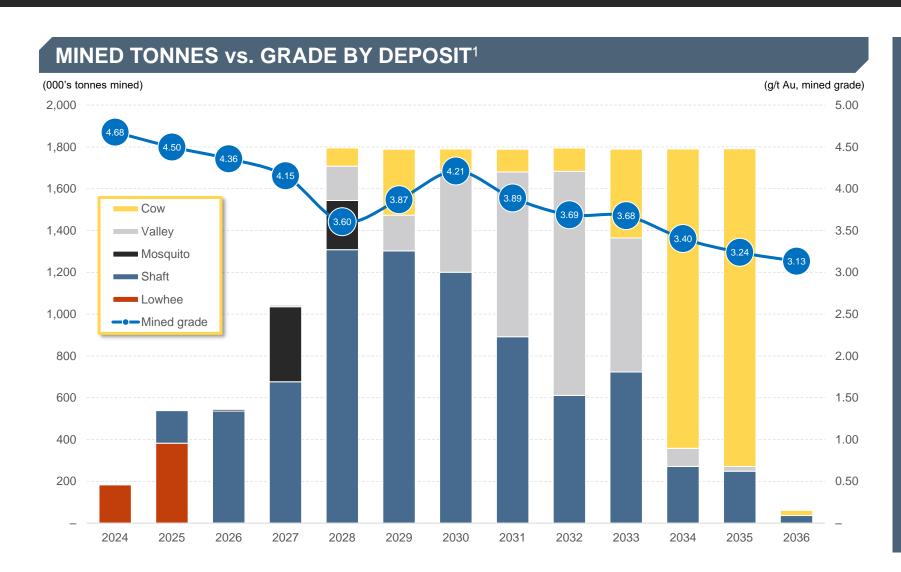
Phase 1 production to come from Lowhee, Shaft and Mosquito deposits

- The vertical extent of all mineable blocks averages ~350 meters and mineralization has been tested down to 900 meters
- The mine is planned to be accessed by two portals from surface (Cow and Valley portals)
- Mineralization is open at depth and along strike and between some deposits due to lack of surface drilling
- A series of internal ramps connected to the main ramps provide access to all mining zones, as illustrated below



MINING PRODUCTION PROFILE





LOWHEE, SHAFT AND MOSQUITO

Expected to be mined in Phase 1

48%

of mined material expected to be sourced from the Shaft Deposit

4.32 g/t Au

Mined grade in the first 4 years of operations

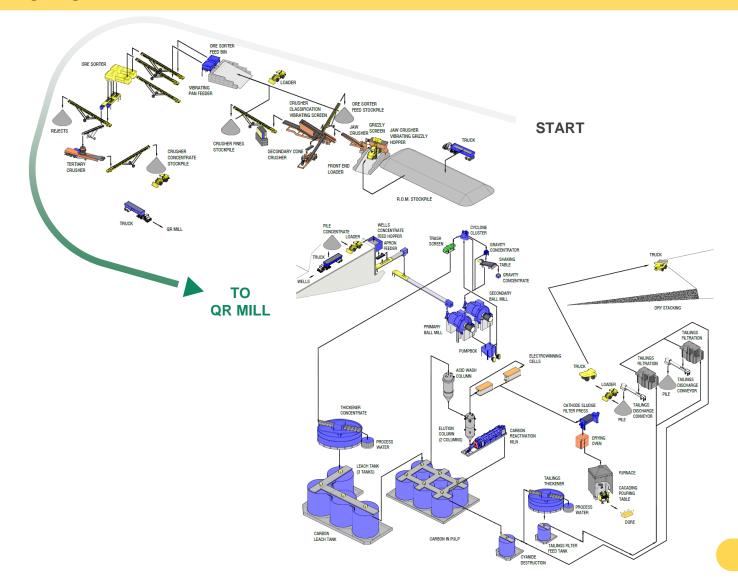
PHASE I – LARGE SCALE PRODUCTION AT LOW CAPEX



KEY METRICS AND BENEFITS

- 1,500 tpd initial throughput (first 3 years)
- Crushing and sorting located at mine site
- Reduced capital cost by leveraging existing infrastructure at QR Mill for comminution and leaching
- Low initial construction cost of \$137 million
- Average feed grade of 4.43 g/t Au and post-ore sorting feed grade of 8.20 g/t Au
- Flowsheet and engineering designed to accommodate and streamline Phase II expansion

FLOW SHEET



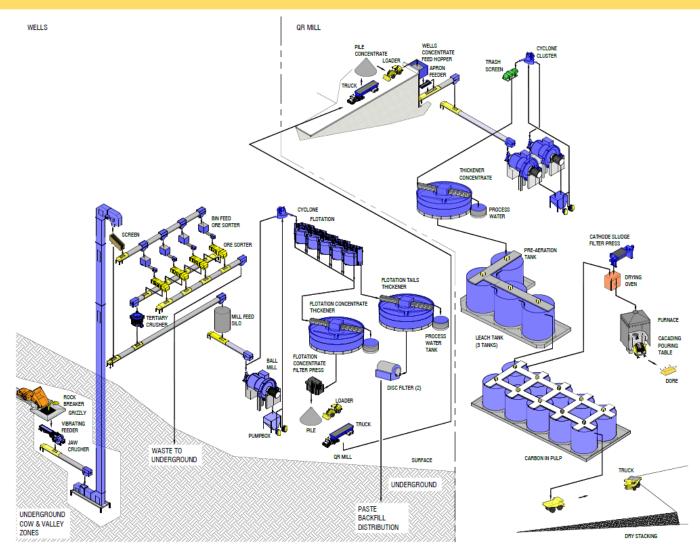
PHASE II – STREAMLINED EXPANSION TO OPTIMIZE MINING



KEY METRICS AND BENEFITS

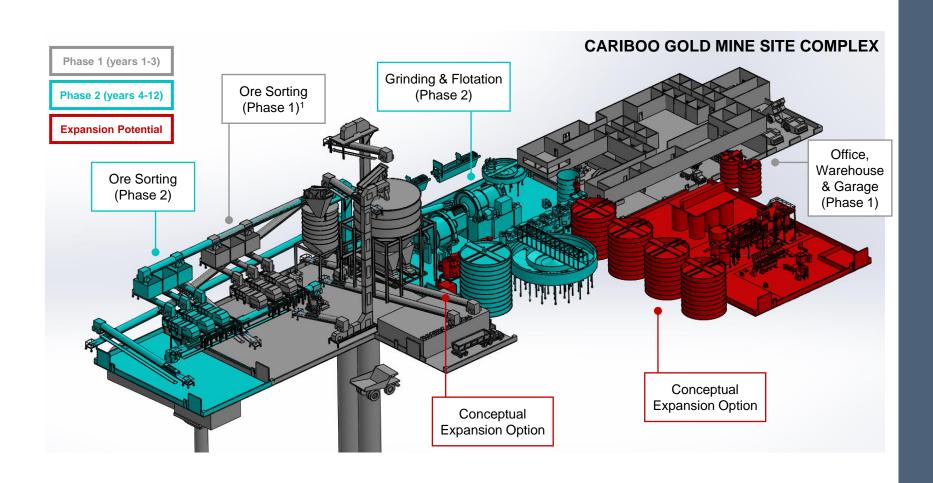
- 4,900 tpd expansion throughput
- Underground primary crushing with conveyor to surface
- Ore sorting, comminution and flotation conducted at mine site
- Flotation concentrate processed at QR Mill for further comminution, leaching and refining
- Expansion capital of \$451 million
- Avg. feed grade of 3.72 g/t Au and postore sorting feed grade of 6.39 g/t Au
- Designed to streamline expansion beyond 4,900 tpd

FLOW SHEET



PROCESSING CAPACITY EXPANSION POTENTIAL





STREAMLINED
DESIGN THAT
ALLOWS SCALING
PROCESSING
CAPACITY BEYOND
4,900 TPD

Current Phase II design layout incorporates sufficient room for future throughput expansion potential

NATURE OF MINERALIZATION FAVORABLE TO ORE SORTING



Metallurgical testing to date indicates that Cariboo mineralization is well suited for ore sorting

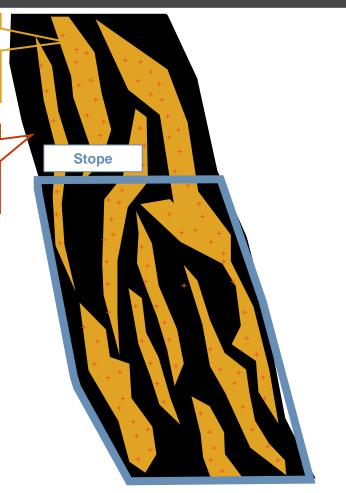
Ore Sorting Separates Gold Rich (11.0 g/t1) Host Rock From Unmineralized Sandstone

Pyrite hosted in quartz veins High Density Material (~5 g/cm³)

Sandstone

Low Density Material (~2.5 g/cm³)
Unmineralized Waste

- Stopes designed to follow vein corridors
- Gold uniquely pyrite hosted within a high-density network of mineralized quartz veins
- Ore sorting effective at separating sandstone (waste) from the high-density gold-associated pyrite
- 95.6% average gold recovery and 62.1% separation of the waste material based on testing to date²



481 VEIN CORRIDORS

2 M MINIMUM WIDTH OF VEIN CORRIDORS

6.7 KM MODELLED STRIKE LENGTH

700 M WIDTH TO A DEPTH OF 600 M AND OPEN

~11 G/T AVG ESTIMATED UNCAPPED LENGTH WEIGHTED GRADE OF QUARTZ VEINS IN VEIN CORRIDORS¹

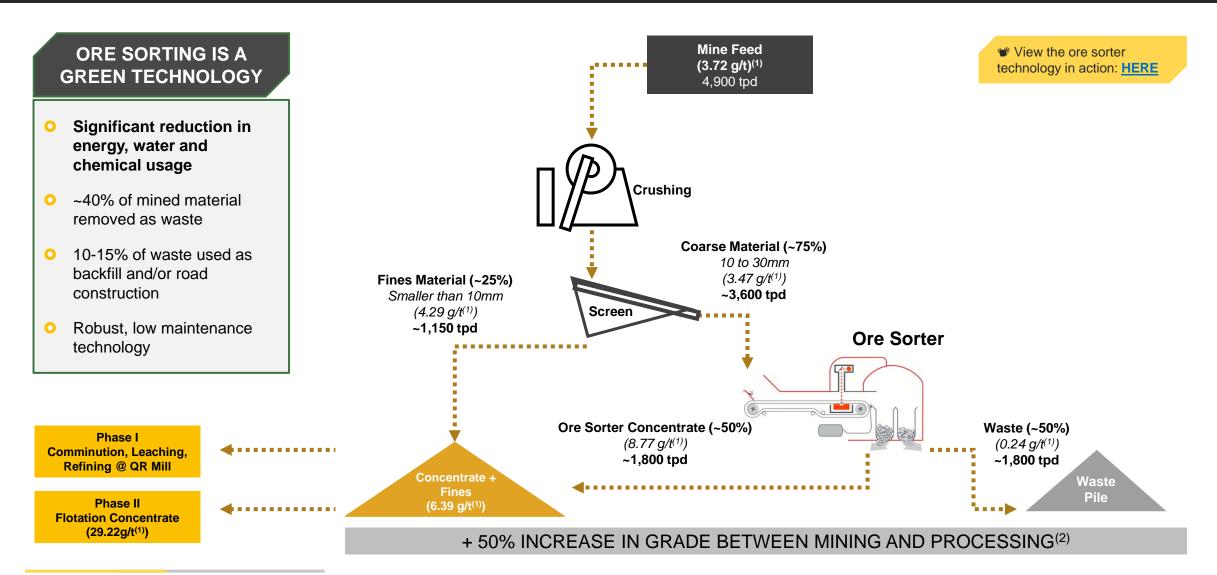
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^{1.} Average estimated uncapped length weighted grade based upon work completed to date by ODV and verified by ODV QP Maggie Layman. The 2023 Feasibility Study does not include any references to estimated average uncut gold vein grade. 2. Refer to the full text of the Cariboo FS technical report for the assumptions, qualifications and limitations relating to disclosure about the Feasibility Study on the Cariboo Gold Project.

ORE SORTER TECHNOLOGY: CARIBOO FEASIBILITY STUDY



Ore sorting provides significant benefits at low opex of ~\$1.00 per tonne feed

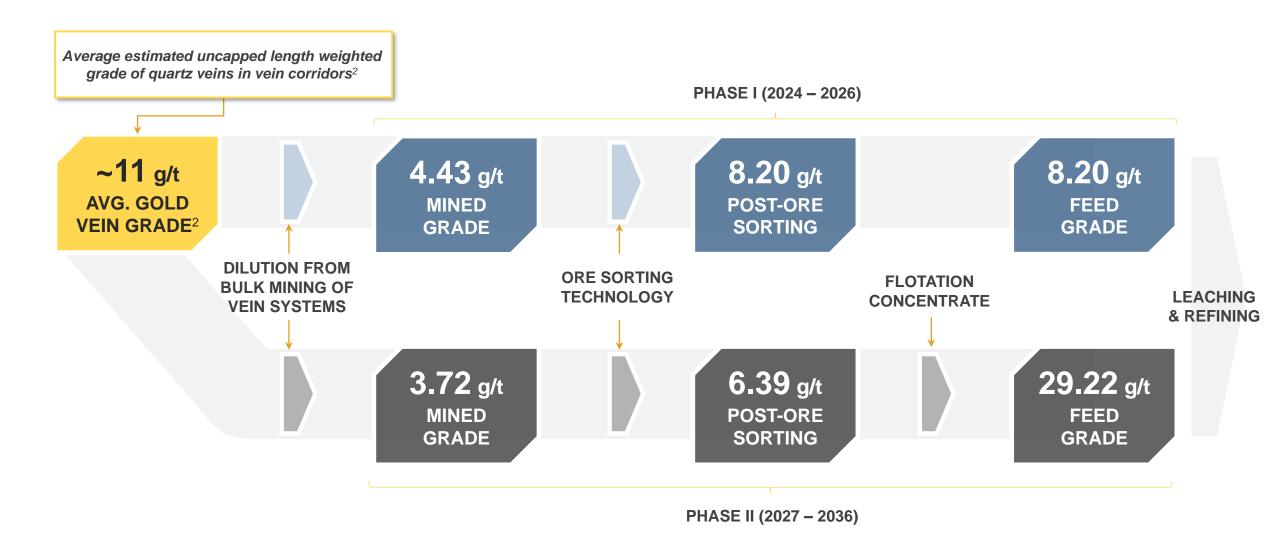


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^{1.} Cariboo Gold Feasibility average grade for Phase 2 at 4,900 tpd from 2027 to 2035. 2. Based on testing conducted to date. Refer to the full text of the Cariboo FS technical report for the assumptions, qualifications and limitations relating to disclosure about the Feasibility Study on the Cariboo Gold Project. 3. Estimates based on LOM average estimated processed grades as defined in the 2023 Feasibility Study. Average estimated uncapped length weighted grade based upon work completed to date by ODV and verified by ODV QP Maggie Layman. The 2023 Feasibility Study does not include any references to estimated average uncut gold vein grade.

UP "GRADE" PROCESS¹



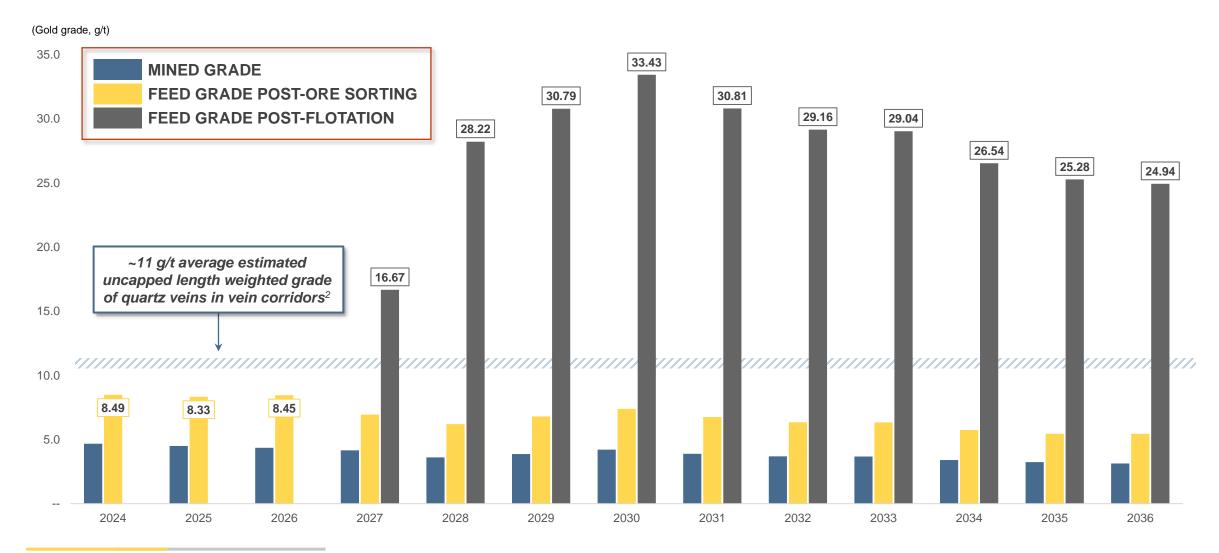


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^{1.} Estimates based on LOM average estimated processed grades as defined in the 2023 Feasibility Study. Refer to the full text of the Cariboo FS technical report for the assumptions, qualifications and limitations relating to disclosure about the Feasibility Study on the Cariboo Gold Project. 2. Average estimated uncapped length weighted grade based upon work completed to date by ODV and verified by ODV QP Maggie Layman. The 2023 Feasibility Study does not include any references to estimated average uncut gold vein grade.

FEED UP "GRADE": ORE SORTING & FLOTATION¹





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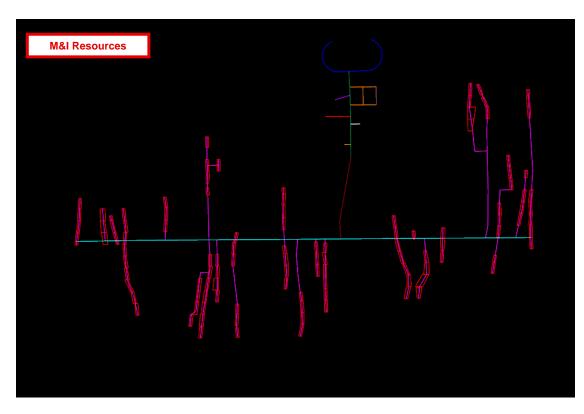
^{1.} Estimates based on LOM average estimated processed grades as defined in the 2023 Feasibility Study.

CARIBOO UPSIDE POTENTIAL THROUGH RESOURCE CONVERSION



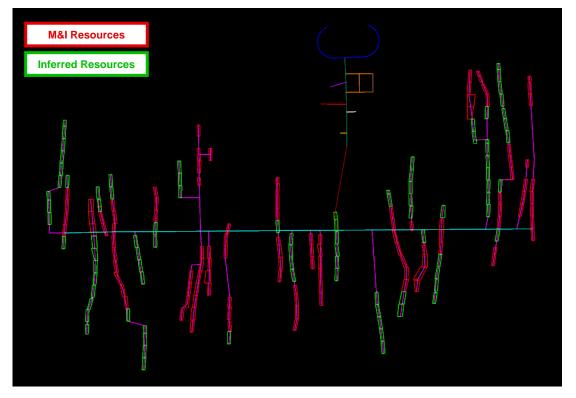
FEASIBILITY STUDY - M&I RESOURCES ONLY¹

 All ramp, access and haulage drifts and other primary infrastructure to be constructed to provide access to minable stopes as defined in the Feasibility Study



ADDITIONAL INFERRED RESOURCES¹

- Potential to convert inferred resources near mined ounces at minimal additional development capex
- Inferred resources appear to be extensions of existing veins



CARIBOO EXPLORATION POTENTIAL AT DEPTH



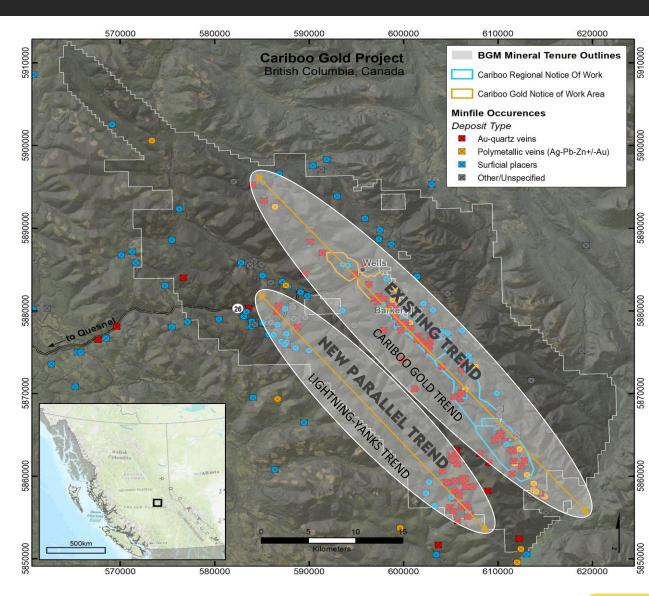
- 2.03 Moz Au at 3.8 g/t Au in Probable Reserves¹
- 1.57 Moz Au at 3.3 g/t Au M&I resources, 1.71 Moz at 3.44 g/t Au Inferred Resources with potential to be converted
- >500 m additional depth potential of known vein corridors adjacent to mine plan untested mineralized veins intersected at depth to ~800 m and still open. Average deposit depth is ~350 m



DEVELOPING A MINING CAMP



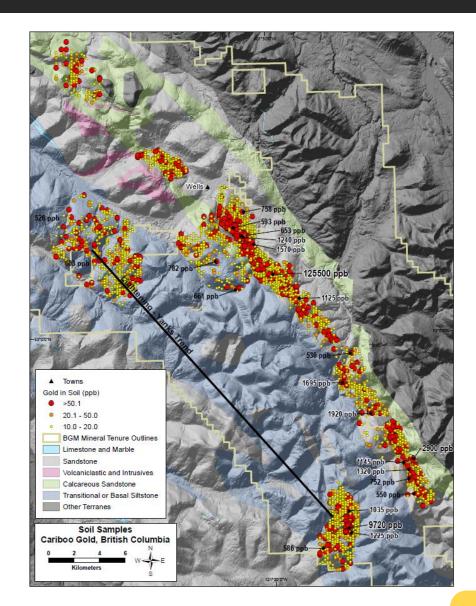
- District-scale exploration upside in under-explored Cariboo Gold Belt
- High degree of confidence in geological model with anomalous gold values >2.0 g/t Au in ~80% of drill holes
- 155,000 ha property with 83 kilometers strike of gold targets
- ~700,000 meters drilled in the last seven years
- Strong support from the BC government
- Year-round exploration and access, infrastructure and work force



CARIBOO REGIONAL EXPLORATION TARGETS



- > 25 other targets to drill and growing
- Two mineralized trends
- ~25,000 soil samples
- 2,375 rock samples
- 1,100 stream sediment samples
- Airborne geophysics over all claims (Cariboo and Quesnel)
- Ongoing historic data compilation
- Systematic 1:2,000 scale geologic mapping over principal target areas





APPENDIX

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CARIBOO MINERAL RESERVES & RESOURCES



(Measured and Indicated Resources are exclusive of Reserves)

| MINERAL RESERVES | ı | PROVEN | | Pl | ROBABLE | | PROVEN & PROBABLE | | | |
|------------------|---|--------|---|--------|-------------------|-------------------|-------------------------------|------|-------|--|
| Deposit | Tonnes Grade Ounces (000's) (g/t) (000's) | | | | Ounces (000's) | Tonnes (000's) | Grade Ounces (g/t) (000's) | | | |
| Cow | _ | _ | _ | 4,127 | 3.41 | 453 | 4,127 | 3.41 | 453 | |
| Valley | _ | - | - | 3,445 | 3.70 | 410 | 3,445 | 3.70 | 410 | |
| Shaft | _ | _ | _ | 7,962 | 3.87 | 990 | 7,962 | 3.87 | 990 | |
| Mosquito | _ | - | - | 603 | 4.93 | 95 | 603 | 4.93 | 95 | |
| Lowhee | _ | _ | _ | 567 | 4.56 | 83 | 567 | 4.56 | 83 | |
| TOTAL RESERVES | _ | _ | _ | 16,703 | 3.78 | 2,031 | 16,703 | 3.78 | 2,031 | |

| MINERAL RESOURCES | М | EASURED | | 11 | INDICATED | | MEASURED & INDICATED | | | INFERRED | | |
|-------------------|-----------------------|--------------------|-----------------------|-------------------|----------------|-------------------|----------------------|----------------|-------------------|-------------------|----------------|-------------------|
| Deposit | Tonnes (000's) | Grade (g/t) | Ounces (000's) | Tonnes (000's) | Grade (g/t) | Ounces (000's) | Tonnes (000's) | Grade (g/t) | Ounces (000's) | Tonnes (000's) | Grade (g/t) | Ounces (000's) |
| Bonanza Ledge | 47 | 5.06 | 8 | 32 | 4.02 | 4 | 79 | 4.64 | 12 | _ | - | - |
| BC Vein | _ | _ | _ | 1,030 | 3.12 | 103 | 1,030 | 3.12 | 103 | 461 | 3.55 | 53 |
| KL | - | _ | _ | 386 | 3.18 | 39 | 386 | 3.18 | 39 | 1,918 | 2.75 | 169 |
| Lowhee | _ | _ | _ | 1,368 | 3.18 | 140 | 1,368 | 3.18 | 140 | 445 | 3.34 | 48 |
| Mosquito | _ | - | _ | 1,288 | 3.68 | 152 | 1,288 | 3.68 | 152 | 1,290 | 3.55 | 147 |
| Shaft | _ | _ | _ | 4,781 | 3.39 | 523 | 4,781 | 3.39 | 523 | 6,468 | 3.84 | 800 |
| Valley | _ | - | _ | 2,104 | 3.14 | 213 | 2,104 | 3.14 | 213 | 2,119 | 3.30 | 225 |
| Cow | _ | _ | _ | 3,644 | 3.31 | 388 | 3,644 | 3.31 | 388 | 2,769 | 3.03 | 270 |
| TOTAL RESOURCES | 47 | 5.06 | 8 | 14,635 | 3.32 | 1,564 | 14,682 | 3.33 | 1,571 | 15,470 | 3.44 | 1,712 |

NOTES TO MINERAL RESERVES AND RESOURCES



MINERAL RESERVES

- 1. Totals may not add up due to rounding.
- 2. Mineral Reserves have been estimated in accordance with CIM Definition Standards for Mineral Resources and Mineral Reserves (2014), which are incorporated by reference in NI 43-101.
- 3. Mineral Reserves used the following assumptions: US\$1,700/oz gold price, USD:CAD exchange rate of 1.27, and variable cut-off value from 1.70 g/t to 4.00 g/t Au.
- 4. Mineral Reserves include both internal and external dilution along with mining recovery. The external dilution is estimated to be 8%. The average mining recovery factor was set at 93.6% to account for ore left in each block in the margins of the deposit.

MINERAL RESOURCES

- 1. Mineral Resources are exclusive of Mineral Reserves. Mineral Resources that are not Mineral Reserves do not have demonstrated economic viability.
- 2. The Mineral Resource Estimate conforms to the 2014 CIM Definition Standards on Mineral Resources and Reserves and follows the 2019 CIM Estimation of Mineral Resources and Mineral Reserves Best Practice Guidelines.
- 3. A total of 481 vein zones were modelled for the Cow Mountain (Cow and Valley), Island Mountain (Shaft and Mosquito), Barkerville Mountain (BC Vein, KL, and Lowhee) deposits and one gold zone for Bonanza Ledge. A minimum true thickness of 2.0 m was applied, using the Au gold grade of the adjacent material when assayed or a value of zero when not assayed.
- 4. The estimate is reported for a potential underground scenario at a cut-off grade of 2.0 g/t Au, except for Bonanza Ledge at a cut-off grade of 3.5 g/t Au. The cut-off grade for the Cow, Valley, Shaft, Mosquito, BC Vein, KL, and Lowhee deposits was calculated using a gold price of US\$1,700/oz; USD:CAD exchange rate of 1.27; global mining cost of \$54.32/t; processing and transport cost of \$22.29/t; G&A plus Environmental cost of \$15.31/t; and sustaining CapEx cost of \$31.19/t. The cut-off grade for the Bonanza Ledge deposit was calculated using a gold price of US\$1,700/oz; USD:CAD exchange rate of 1.27; global mining cost of \$79.13/t; processing and transport cost of \$65.00/t; and G&A plus Environmental cost of \$51.65/t. The cut-off grades should be re-evaluated in light of future prevailing market conditions (metal prices, exchange rate, mining cost, etc.).
- 5. Bulk density varies from 2.69 g/cm³ to 3.20 g/cm³.
- 6. A four-step capping procedure was applied to composited data. Restricted search ellipsoids ranged from 7 to 50 g/t Au at four different distances ranging from 25 m to 250 m. High-grades at Bonanza Ledge were capped at 70 g/t Au on 2.0 m composited data.
- 7. The gold Mineral Resources for the Cow, Valley, Shaft, Mosquito, BC Vein, KL, and Lowhee vein zones were estimated using Datamine Studio[™] RM 1.9 software using hard boundaries on composited assays. The silver Mineral Resources and the dilution halo gold mineralization were estimated using Datamine Studio[™] RM Pro 1.11. The OK method was used. Mineral Resources for Bonanza Ledge were estimated using GEOVIA GEMSTM 6.7 software using hard boundaries on composited assays. The OK method was used to interpolate a block model.
- 8. Results are presented in situ. Calculations used metric units (metres, tonnes, g/t). Any discrepancies in the totals are due to rounding effects.



OSISKO DEVELOPMENT

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