

Osisko Development Announces Optimized Feasibility Study for Permitted Cariboo Gold Project

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With C\$943 Million After-Tax NPV5% and 22.1% IRR at US\$2,400/oz Base Case Gold Price; at US\$3,300/oz Spot Gold C\$2.1 Billion After-Tax NPV5% and 38.0% IRR

HIGHLIGHTS¹

- Robust returns with base case after-tax NPV5% of \$943 million, unlevered after-tax IRR of 22.1% and payback² of 2.8 years at \$2,400/oz gold price assumption. Using spot gold price of \$3,300/oz, NPV5% improves to \$2,066 million, IRR 38.0%, and payback² of 1.6 years
- Average annual production of ~190,000 ounces of gold over a 10-year mine life (202,000 ounces in the first 5 years) with first gold anticipated in H2 2027, assuming construction commences in Q3 2025, subject to progress on ongoing project financing discussions
- Average TCC of US\$947/oz and AISC of US\$1,157/oz over the LOM, placing the Cariboo Gold Project within the lower half of the global cost curve for gold mines³
- Average base case LOM annual FCF of \$158 million (\$296 million per year in the first 5 years)
- Improved single-phase build over 24 months and direct ramp-up to 4,900 tpd with total initial capital cost of \$881 million and sustaining capital of \$525 million over the LOM
- Streamlined processing facilities into a single location and improved flowsheet design with incorporation of a gravity circuit and production of higher-grade concentrate product
- Strong support for local employment with up to 613 direct jobs created during peak construction and 525 permanent jobs during operations
- Significant opportunities to potentially enhance Project economics and extend mine life through conversion of Mineral Resources adjacent to Mineral Reserves through infill drilling

[Osisko Development Corp.](#) (NYSE: ODV, TSXV: ODV) ("Osisko Development" or the "Company") is pleased to announce the results of a positive optimized Feasibility Study ("2025 FS") for its permitted, 100%-owned Cariboo Gold Project ("Cariboo Gold" or the "Project"), located in central British Columbia ("BC"), Canada. The 2025 FS was completed by BBA Engineering Ltd. ("BBA") as lead independent consultant, and supported by other independent engineering firms, in accordance with National Instrument 43-101 - *Standards of Disclosure for Mineral Projects* ("NI 43-101"). The Company intends to file the technical report in respect of the 2025 FS (the "Technical Report") on SEDAR+ (www.sedarplus.ca) and on EDGAR (www.sec.gov) under Osisko Development's issuer profile within 45 days of the date of this news release. The 2025 FS confirms strong economics for a low-impact underground operation using mechanized bulk mining methods, with attractive operating costs, manageable capital requirements, and well-positioned to benefit from favorable macroeconomic and gold price trends. The process facilities have been designed to accommodate potential future throughput expansions.

Sean Roosen, Founder, Chairman and CEO, commented, *"The completion of this optimized feasibility study represents a critical milestone for the Cariboo Gold Project, one of the few undeveloped, permitted gold projects in a Tier-1 jurisdiction⁴. The results reaffirm our view that Cariboo is a high-quality asset with robust returns and significant upside potential within the existing mine plan. Our immediate focus remains on advancing project financing and further de-risking the project toward FID, but, we believe additional work could support potential future production increases within the planned mine footprint. Additionally, our extensive land position around the Project area offers numerous opportunities for new discoveries in this prolific gold belt. With today's favorable gold price backdrop and positive outlook, we believe this project is well-positioned to deliver substantial value to all stakeholders. We look forward to sharing further updates in the coming months."*

A formal positive final investment decision, along with securing of a project financing package in the coming months would enable certain construction activities to commence in the second half of 2025, with project completion targeted for the end of 2027.

Osisko Development will host a conference call and webinar presentation by management on the 2025 FS results on Monday, April 28, 2025 at 11:00 a.m. ET, followed by a question & answer session. Details for dial-in, webcast access, and replay archive are available at the end of this news release.

OPTIMIZED FEASIBILITY STUDY OVERVIEW

The Cariboo Gold Project is envisioned as a traditional underground operation, employing mechanized long-hole open stoping to extract ore from gold-bearing vein corridors—an intricate network of mineralized quartz veins predominantly hosted within unmineralized sandstone. An improved flowsheet from the 2023 FS (as defined herein⁵), supported by additional metallurgical testwork, envisions ore beneficiation to be exclusively completed at the Mine Site Complex. This would produce saleable gold doré from a gravity concentrate and ~66 tpd of high-grade flotation concentrate averaging ~133 g/t Au. The flotation concentrate would be transported by truck to the Port of Vancouver for transport and sale to a smelting partner. 2025 FS key summary results and assumptions are outlined in Table 1:

Table 1: Cariboo Gold 2025 FS - Key Results and Assumptions (after-tax)

Metric	units	Base Case	Spot Case
Gold price	US\$/oz	\$2,400	\$3,300
Exchange rate	USDCAD	1.35	1.40
Net Present Value at 5% discount	\$ mm	943	2,066
Internal Rate of Return (IRR)	%	22.1%	38.0%
Payback, from commercial production	years	2.8	1.6
Average annual free cash flow ¹	\$ mm	158	314
Average AISC, LOM ¹	US\$/oz	1,157	1,167

1. All-in sustaining costs per ounce and free cash flow are non-IFRS measures or ratios. Refer to "Non-IFRS Financial Measures" at the end of this news release for more information.
2. Spot case is based on the LBMA gold price as of the close of business on April 23, 2025, rounded to nearest \$100/oz and the USDCAD exchange rate is based on the Bank of Canada daily exchange rate, rounded to nearest five cents.

Key Improvements and Optimizations vs. 2023 FS

The 2025 FS incorporates several important improvements and de-risking initiatives over the 2023 Feasibility Study that better position the Project from an execution, financing, and operational perspective. Notable changes include:

- Accelerated Development Sequence: Single-phase construction and ramp up directly to nameplate capacity of 4,900 tpd, which increases the LOM average gold production profile by 16% to 190,000 oz per year, and 202,000 oz per year in the first five years.
- Streamlined Processing: A single milling facility at the mine site removes the need (as had been previously contemplated) to transport flotation concentrate 116 km to the QR Mill. This reduces capital and operating costs by consolidating operations into one location.
- Improved Flowsheet Design: Updated metallurgical studies and testing has resulted in the addition of a gravity circuit which, combined with a rougher and cleaner flotation circuit, resulted in overall project gold recovery of 92.6% and the production of ~66 tpd higher-grade concentrate product (reduction from 590 tpd in 2023 FS Phase II) averaging ~133 g/t Au (vs. 28 g/t Au in 2023 FS Phase II). Approximately 46% of gold is expected to be recovered by gravity.
- Underground Mine Design: Increased average stope size by ~60% compared to the 2023 FS, significantly reducing the total number of stopes required to achieve average daily throughput. Optimization of the geotechnical design of the mined stopes, supported by recent trial mining, allows for more operational flexibility of underground operations.
- Mineral Reserves: Probable Mineral Reserves remained largely unchanged, increasing slightly to 2.071 million ounces Au (17.8 Mt grading 3.62 g/t Au).
- Permitted: Project design and sequencing contemplated in the 2025 FS is aligned with the BC *Mines Act* and *Environmental Management Act* permits obtained in Q4 2024.

Table 2: Cariboo Gold 2025 FS vs. 2023 FS - Project Operating and Financial Metrics

Assumptions	units	2023 FS	2025 FS
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Gold price	US\$/oz	1,700	2,400
Exchange rate	USDCAD	1.30	1.35
Discount rate	%	5.0%	5.0%
Production			
Mine life	yrs	12.0	10.0
Total ore mined	kt	16,703	17,815
Peak annual throughput	tpd	4,900	4,900
Average gold head grade	g/t Au	3.78	3.62
Total contained gold	koz	2,031	2,071
Avg. gold recovery	%	92.0%	92.6%
Total recovered gold, payable	koz	1,869	1,894
Avg. gold production, LOM	koz/yr	164	190
Avg. gold production, first 5 yrs	koz/yr	96	202
Operating Unit Costs			
Underground mining	\$/t mined	53.6	62.3
Processing	\$/t mined	31.2	23.2
Water and waste management	\$/t mined	7.2	5.0
Electrical transmission line	\$/t mined	-	4.9
General and administrative	\$/t mined	10.7	15.4
Total unit operating costs	\$/t mined	102.6	110.7
Total operating costs	\$ mm	1,714	1,921
Royalty payments	\$ mm	206	292
Offsite charges	\$ mm	5	143
Operating Costs			
Total cash costs ²	US\$/oz	\$792	\$947
AISC ²	US\$/oz	\$968	\$1,157
Capital Expenditures			
Initial costs	\$ mm	137.3	881
Expansion costs	\$ mm	451.1	-
Sustaining costs	\$ mm	466.6	426
Closure costs, net ³	\$ mm	(38.9)	99
Total capex	\$ mm	1,016	1,406
Economics (after-tax)			
Total free cash flow, LOM ²	\$ mm	901	1,577
Net Present Value (NPV5%)	\$ mm	502	943
Internal Rate of Return (IRR)	%	20.7%	22.1%
Payback, from commercial production	yrs	5.9	2.8
Average free cash flow, first 5 yrs ²	\$ mm	(63)	296
Average free cash flow, LOM ²	\$ mm	75	158

1. Total may not add up due to rounding.

2. Cash costs, all-in sustaining costs per ounce and free cash flow are non-IFRS measures or ratios.

Refer to "Non-IFRS Financial Measures" at the end of this news release for more information. Total cash costs are presented on a per ounce payable basis inclusive of total operating costs mining costs, processing costs, site G&A costs, royalties, smelting, refining, and transports costs. AISC are presented on a per ounce payable basis and include cash costs plus sustaining and closure costs.

3. Closure costs are shown net of salvage value.

4. Pre-final investment decision capital costs total \$38.6 million.

Figure 1: Payable Gold Production and AISC¹ Profile by Year

1. All-in sustaining costs per ounce is a non-IFRS ratio. Refer to "Non-IFRS Financial Measures" at the end of this news release for more information.

Figure 2: Free Cash Flow¹ by Year

1. Free cash flow is a non-IFRS measure. Refer to "Non-IFRS Financial Measures" at the end of this news release for more information.

ECONOMIC SENSITIVITY ANALYSIS

The Company used a base case gold price assumption of US\$2,400/oz and a USDCAD exchange rate of 1.35 in its analysis and incorporated only Probable Mineral Reserves (as defined herein). Based on these assumptions, the Project generates an after-tax NPV5% of \$943 million, an after-tax unlevered IRR of 22.1% and a payback of 2.8 years (from commercial production). The 2025 FS economics are most sensitive to fluctuations in the following inputs (in order of magnitude of impact): gold price, foreign exchange, operating costs, and capital costs.

Table 3: Cariboo Gold 2025 FS - Economic Sensitivity Analysis, after-tax (base case in bold)

Gold Price (US\$/oz)	NPV5% (\$ mm)	IRR (%)	Payback (yrs)	Avg. FCF (\$ mm per yr)
\$1,800	251	9.9%	5.3	65
\$2,100	610	16.5%	3.5	113
\$2,400	943	22.1%	2.8	158
\$2,700	1,275	27.2%	2.2	204
\$3,000	1,604	31.9%	1.9	250
\$3,300	1,934	36.3%	1.7	296
\$3,600	2,263	40.5%	1.5	342
\$3,900	2,592	44.5%	1.3	388
\$4,200	2,921	48.3%	1.2	433
\$4,500	3,249	51.9%	1.1	479

Table 4: Cariboo Gold 2025 FS - NPV5% Sensitivity Analysis, after-tax, \$ mm (base case in bold)

Gold Price (US\$/oz)	1.30	1.35	1.40	1.45
\$9,800	166	251	335	419
\$29,100	525	610	695	780
\$30,400	847	943	1,040	1,136
\$20,380	1,167	1,275	1,382	1,490
\$36,000	1,484	1,604	1,724	1,845
\$36,890	1,801	1,934	2,066	2,198
\$37,600	2,118	2,263	2,408	2,552
\$37,900	2,436	2,592	2,749	2,905
\$38,200	2,753	2,921	3,089	3,258
\$38,800	3,069	3,249	3,430	3,610

Table 5: Cariboo Gold 2025 FS - IRR Sensitivity Analysis, after-tax, % (base case in bold)

Gold Price (US\$/oz)	1.30	1.35	1.40	1.45

\$6,200	8.3%	9.9%	11.5%	13.0%
\$2,400	15.0%	16.5%	18.0%	19.4%
\$2,000	20.6%	22.1%	23.7%	25.2%
\$2,700	25.6%	27.2%	28.8%	30.3%
\$8,600	30.2%	31.9%	33.5%	35.2%
\$2,800	34.6%	36.3%	38.0%	39.7%
\$6,800	38.7%	40.5%	42.3%	44.1%
\$0,700	42.7%	44.5%	46.3%	48.1%
\$4,200	46.4%	48.3%	50.1%	52.0%
\$7,900	49.9%	51.9%	53.8%	55.7%

MINERAL RESOURCES AND MINERAL RESERVES

Vein corridors that make up the Cariboo Gold Project Mineral Resources and Mineral Reserves comprise a high-density network of mineralized quartz veins hosted within unmineralized sandstone. Individual mineralized veins within these corridors have widths varying from centimeters to several meters and strike lengths from a few meters to over 50 m. These corridors have been defined from surface to a vertical depth of 650 m, averaging 300m, and remain open for expansion at depth and along strike. Gold grades are intimately associated with quartz vein-hosted pyrite as well as pyritic, intensely silicified wall rock haloes in close proximity to the veins.

Figure 3: Vein Corridor in Lowhee Bulk Sample Area

Mineral Resources Estimate

The Mineral Resources estimate included in the 2025 FS have an effective date of April 22, 2025, and are reported exclusive of Mineral Reserves. Mineral Resources that are not Mineral Reserves do not have demonstrated economic viability. The Mineral Resources estimate have been updated to account for depletion in the Lowhee Zone, due to ongoing development and bulk sample activities, as well as for changes in costs and cut-off grade assumptions. This resulted in an aggregate increase of 3% of the total contained gold ounces in the Indicated Resources category and an increase of 8% of the total contained gold ounces in the Inferred Resources category as compared to the 2023 FS.

There is no certainty that Mineral Resources will be converted into Mineral Reserves. Mineral Resources include Inferred Mineral Resources which have had insufficient work to classify them as Indicated Mineral Resources. It is uncertain but reasonably expected that Inferred Mineral Resources could be upgraded to Indicated Mineral Resources with continued exploration.

Table 6: Cariboo Gold 2025 FS - Mineral Resources Statement (April 22, 2025)

Category / Zone	Tonnage (000's tonnes)	Gold Grade (g/t)	Contained Gold (000's oz)
Measured			
Bonanza Ledge	47	5.06	8
Indicated			
Bonanza Ledge	32	4.02	4
BC Vein	1,057	3.00	102
KL	527	2.80	47
Lowhee	1,333	2.76	118
Mosquito	1,553	2.96	148
Shaft	6,121	2.92	575
Valley	2,718	2.70	236
Cow	3,991	2.91	374

Total Indicated Resources	17,332	2.88	1,604
Total Measured & Indicated	17,380	2.88	1,612
Inferred			
BC Vein	596	3.17	61
KL	2,514	2.53	205
Lowhee	486	3.01	47
Mosquito	1,883	3.08	186
Shaft	7,457	3.44	826
Valley	2,470	3.01	239
Cow	3,368	2.78	301
Total Inferred Resources	18,774	3.09	1,864

1. The independent and qualified persons for the Mineral Resources estimates, as defined by NI 43-101, are Carl Pelletier, P.Geo., and Tessa Scott, P.Geo. (Norda Stelo). The effective date of the 2025 Feasibility Study Mineral Resource Estimate is April 22, 2025.
2. These Mineral Resources, exclusive of the reserves, are not Mineral Reserves and do not have demonstrated economic viability.
3. The Mineral Resources estimate follows the 2014 CIM Definition Standards on Mineral Resources and Reserves and the 2019 CIM Estimation of Mineral Resources and Mineral Reserves Best Practice Guidelines.
4. 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 gold grade of the adjacent material when assayed or a value of zero when not assayed.
5. The estimate is reported for a potential underground scenario at a cut-off grade of 1.8 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\$2,400/oz; a USDCAD exchange rate of 1.35; an underground mining cost of \$66.3/t; a processing and transport cost of \$30.80/t; a G&A plus Environmental cost of \$22.40/t; and a sustaining CAPEX cost of \$45.6/t. No changes have been applied for the Bonanza Ledge. The cut-off grade for the Bonanza Ledge deposit was calculated using a gold price of US\$1,700/oz; a USDCAD exchange rate of 1.27; an underground mining cost of \$79.13/t; a processing and transport cost of \$65.00/t; and a G&A plus Environmental cost of \$51.65/t. The cut-off grades may be re-evaluated in light of future prevailing market conditions (metal prices, exchange rate, mining cost, etc.).
6. Density values for Cow, Shaft, Lowhee, and BC Vein were estimated using the ID2 interpolation method, with a value applied for the non-estimated blocks of 2.80 g/cm³ for Cow, 2.78 g/cm³ for Shaft, 2.74 g/cm³ for Lowhee, and 2.69 g/cm³ for BC Vein. Median densities were applied for Valley (2.81 g/cm³), Mosquito (2.79 g/cm³), and KL (2.81 g/cm³). A density of 3.20 g/cm³ was applied for Bonanza Ledge.
7. A four-step capping procedure was applied to composited data for Cow (3.0 m), Valley (1.5 m), Shaft (2.0 m), Mosquito (2.5 m), BC Vein (2.0 m), KL (1.75 m), and Lowhee (1.5 m). Restricted search ellipsoids ranged from 7 to 50 g/t Au at four different distances ranging from 25 m to 250 m for each deposit. High grades at Bonanza Ledge were capped at 70 g/t Au on 2.0 m composited data.
8. The gold Mineral Resources for the Cow, Valley, Shaft, Mosquito, BC Vein, KL, and Lowhee vein zones were estimated using Datamine StudioTM RM 1.9 software using hard boundaries on composited assays. The dilution halo gold mineralization was estimated using Datamine StudioTM RM Pro 1.11. The OK method was used to interpolate a sub-blocked model (parent block size = 5 m x 5 m x 5 m). 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 (block size = 2 m x 2 m x 5 m).
9. Results are presented in situ. Ounce (troy) = metric tons x grade / 31.10348. Calculations used metric units (metres, tonnes, g/t). The number of tonnes were rounded to the nearest thousand. Any discrepancies in the totals are due to rounding effects. Rounding followed the recommendations as per NI 43-101.
10. The qualified persons responsible for this section of the technical report are not aware of any environmental, permitting, legal, title, taxation, socio-economic, marketing, political, or other relevant factors that could materially affect the Mineral Resource estimate other than those disclosed in this news release and in the Technical Report.

Mineral Reserves Estimate

The 2025 FS outlines Probable Mineral Reserves estimate (with an effective date of April 10, 2025) which is

increased slightly from the 2023 FS due to the adjustment of the cut-off-grade dictated by an accelerated ramp-up schedule to 4,900 tpd throughput relative to the 2023 FS.

Table 7: Cariboo Gold 2025 FS - Mineral Reserves Statement (April 10, 2025)

Category / Zone	Tonnage (tonnes)	Gold Grade (g/t)	Contained Gold (oz)
Proven	-	-	-
Probable			
Cow	3,999,971	3.35	430,548
Valley	3,238,636	3.59	374,058
Shaft	8,548,295	3.72	1,021,599
Mosquito	1,105,370	3.94	140,102
Lowhee	923,162	3.52	104,491
Total Proven & Probable	17,815,435	3.62	2,070,798

1. Totals may not add up due to rounding.
2. The Mineral Reserve estimate follows the 2014 CIM Definition Standards on Mineral Resources and Reserves and the 2019 CIM Estimation of Mineral Resources and Mineral Reserves Best Practice Guidelines.
3. Mineral Reserves used the following assumptions: US\$1,915/oz gold price, USD:CAD exchange rate of 1.32, and variable cut-off value from 1.70 g/t to 2.0 g/t Au
4. Mineral Reserves include both internal and external dilution along with mining recovery. The external dilution is estimated to be 10.1%. The average mining recovery factor was set at 91.3% to account for ore left in each block in the margins of the deposit.

PRODUCTION PROFILE

The 2025 FS outlines an average annual gold production profile of 190,000 ounces over a 10-year mine life. Total payable gold recovered is 1.894 million ounces with an average head grade of 3.62 g/t Au, total metallurgical recovery of 92.6% and a 97.75% concentrate payability factor.

Figure 4: Recovered Gold and Grade Profile by Year

MINING AND MINE DESIGN

Underground mining will target five mineralized zones along 4,400 m of strike, accessed via two ramps: the currently operational Cow portal and a new Valley portal. Each zone includes several vein systems extending to a vertical depth of approximately 650 m. Following a 24-month development period, underground mining will ramp up to a design rate of 4,900 tpd over 10 months. The bulk-tonnage long-hole mining method was chosen for its cost-effectiveness, flexibility, and suitability for the sub-vertical vein geometry. To reduce the impacts of dilution, ore sorting technology will be used to separate gold-bearing sulphide ore (pyrite) from the lower-density unmineralized sandstone rock prior to milling and beneficiation (see *Processing and Recovery*).

The stope design parameters include a minimum width of 3.7 meters, stope heights of approximately 30 meters, and strike lengths ranging from 15 to 25 meters, depending on the zone. The average stope size tonnage has been adjusted based on insights gained from the Bonanza Ledge Phase II operation and the ongoing Lowhee Bulk Sample mining test work. Based on this information stope sizing has been standardized for the 2025 FS resulting in a ~60% increase in the average tonnes extracted per mine shape compared to the 2023 FS. Average stope size for the Project increased to 5,577 tonnes from 3,490 tonnes previously.

Mined ore will be extracted using a fleet of 10 tonne Load Haul Dump and 50 tonne haul trucks to be transported to an underground crushing facility where it will be sized and transported to surface by an

inclined conveyor for pre-concentration ore sorting and subsequent flotation concentration and gravity separation.

Underground development will rely on a combination of traditional jumbos and roadheaders. The Company has previously successfully deployed a roadheader in excavating the Cow portal, ramp and one drift in Bonanza Ledge, demonstrating that the underground rock conditions are amenable to the use of roadheaders under certain conditions.

Figure 5: Mining Plan by Deposit Area

Figure 6: Mining Plan by Zone

As noted in Figure 7, mining is envisioned to occur in three distinct areas: Cariboo North, South, and Deep. Each area is expected to operate independently of one another and provide a maximum ore feed of 2,455 tpd from Cariboo North, 2,740 tpd from Cariboo South, and 2,645 tpd from Cariboo Deep, such that at any given time an aggregate of 4,900 tpd is mined across all deposit areas.

Figure 7: Mining Plan by Zone Long Section

PROCESSING AND RECOVERY

The processing flowsheet is designed for a single processing facility outside of Wells at the Mine Site Complex utilizing a combination of gravity and flotation processing circuits to produce two gold concentrates. Following the construction phase, processing will progressively ramp up to its 4,900 tpd nameplate capacity.

Crushing would occur underground in the Cariboo South region of the ore body (see Figure 7). Material would be conveyed from the secondary crusher to the surface ore sorter. The crushed material is then screened, with fines bypassing the tertiary crusher and reporting directly to the mill feed bin while coarser material would be screened into two suitable feed streams for sorting. The sorted product will be tertiary crushed and returned to the mill feed bin.

As part of the milling circuit, and as an addition to the previous 2023 FS, centrifugal gravity separators have been incorporated into the design. This is expected to contribute to overall gold recovery and recover a significant portion of the gold. Following gravity separation, the milled product (at 80% passing $\sim 189\mu\text{m}$) will be floated to produce a rougher concentrate for regrinding at a similar grade to the previous study. This rougher product will be reground to a target $24\mu\text{m}$ to further liberate gold and enable cleaner flotation. As significant additional gravity recoverable gold was observed in the laboratory test work, the 2025 FS design also features an additional centrifugal gravity unit in the reground circuit. A scavenger will be included on the cleaner circuit. All flotation tails are disposed of as paste backfill into the underground.

Overall project gold recovery over the LOM is expected to be 92.6%.

Figure 8: Simplified processing flowsheet

Metallurgical Optimization

The metallurgical flowsheet has been improved since the publication of the 2023 FS based on updated metallurgical studies focused on the possibility of cleaner flotation and gravity recovery potential.

Table 8: Cariboo Gold 2025 FS - Concentrate Comparison versus 2023 FS

Metric	units	2023 FS	2025 FS
Recovery	%	92.0 ¹	92.6
Average concentrate grade	g/t Au	25 - 33	133
Concentrate production, daily	dmt	590 ³	66
Transport trucks per day	#	15	<3
Gravity concentrate	tonnes	n/a	~5 tpd
Gravity concentrate, total recovery ²	%	n/a	46%
Primary grind size	%	125	189

1. 93.6% recovery for phase I (1,500 tpd), and 91.8% recovery for phase II (4,900 tpd). 92.0% total overall recovery.
2. Recovery as a percentage of total gold recovered.
3. During phase II of the operation.

The higher grade and lower volumes of flotation concentrate is expected to result in a 97.75% concentrate payability factor and reduced transportation costs. This will also reduce the number of concentrate trucks on local roads by approximately 80%.

Subsequent to the bulk ore sorter testwork incorporated in the 2023 FS, laboratory scale test work has been completed over the course of 2024 and 2025. The laboratory scale testwork was used to identify gold associations with various mineral phases and their response to x-ray transmission. These results have helped quantify the expected efficiency of the ore sorting machines, allowing for a reduction in the quantity of units required. This has been factored into the updated capital cost estimates used for the 2025 FS.

Flotation Circuit

Rougher flotation testwork was completed at a larger particle size than for the 2023 FS. This has allowed a revision to a larger primary grind size. Additional cleaner flotation testwork has allowed engineering of a cleaner circuit including regrinding to the 20-24 μ m range for cleaner flotation.

Gravity Recovery

Additional gravity recoverable gold testing, as well as testing of combined gravity and flotation testwork has contributed to the grade of concentrates. Based on averages of testwork to date 46% of the gold recovered is recovered by gravity.

Additional Metallurgical Work

The following metallurgical work is in progress to support refined basic and detailed engineering:

- Pilot sorter testwork
- Grinding variability testwork
- Flotation variability testwork
- Confirmatory dewatering testwork

Mineral Ore Sorting

The Company has refined the ore sorting model for this deposit, including the identification of primary gold-bearing particle morphologies and determination of sorter mass pull-gold recovery behavior for each zone. These learnings have improved the precision of the recovery model.

Waste Disposal

Ore sort tail waste is to be disposed in the same manner as mined waste rock in the surface waste rock storage facility. This removes material from the mill circuit and allows a lower cost disposal method for barren rock than is utilized for mill tails streams. Whole flotation tails will be used as paste backfill underground.

Figure 9: Cariboo Gold Process Flowsheet

OPERATING COSTS

Operating costs estimate includes mining, processing costs to produce a gold doré and gold concentrate, as well as transportation. It also includes costs for waste, water management and treatment, and general and administration costs. The average operating costs over the 10-year mine life is estimated to be \$110.7 per tonne mined. At its peak, the mine will employ up to 525 persons during operations and 613 during construction.

Mining costs include underground crushing cost and material handing costs, including backfilling costs without the binder content of the paste backfill, which is included in the processing cost.

Table 9: Cariboo Gold 2025 FS - Operating Costs

Metric	Total LOM	Unit Cost	Unit Cost Split
	(\$ mm)	(\$/t mined)	(US\$/oz)
Mining	1,080	62.25	434
Processing	403	23.21	162
Water and waste management	86	4.97	35
Electrical transmission line	86	4.93	34
General and administrative	266	15.36	107
Total site operating costs	1,921	110.73	772
			100%

Table 10: Cariboo Gold 2025 FS - Total Cash Costs and All-in Sustaining Costs

Metric	Total LOM	Unit Cost
	(\$ mm)	(US\$/oz)
Total site operating costs	1,921	772
Royalties	292	117
Transport and refining costs	143	58
Total cash costs ¹	2,356	947
Sustaining costs, LOM	426	171
Equipment salvage value	(36)	(14)
Reclamation and closure costs	135	54
All-in sustaining costs ¹	2,881	1,157

1. Total cash costs and all-in sustaining costs per ounce are non-IFRS ratios. Refer to "Non-IFRS Financial Measures" at the end of this news release for more information.

PROJECT ROYALTIES

A 5.0% Net Smelter Royalty ("NSR") payable to [Osisko Gold Royalties Ltd.](#) is the only royalty that applies to the Mineral Resources and Mineral Reserves area of the Project and has been incorporated into the economic analysis of the 2025 FS.

CAPITAL COSTS

The 2025 FS focused on presenting a mine plan consistent with the objective of minimizing the overall environmental and carbon footprint of the Project on the surrounding communities and providing a direct 24-month exclusive construction period leading to a 10 month ramp up to full nameplate production, with 60% reached after 6 months.

Initial capital cost for the Project is estimated at \$881 million, with sustaining capital costs over the LOM estimated at \$525 million. Total cumulative LOM capital costs are estimated at \$1,307 million, not including site reclamation and closure costs of \$135 million and estimated salvage value of \$36 million. The overall capital cost estimate developed in this 2025 FS generally meets the AACE International Class 3 requirements. A total of \$72 million in contingency capital (P50) was included, representing approximately 16.5% of initial capital, not including underground mine costs. Underground development costs incorporate contingencies directly into the mine plan by adjusting planned advance and mining rates.

Table 11: Cariboo Gold 2025 FS - Capital Cost Summary

Item (\$ mm)	Initial CAPEX	Sustaining CAPEX	Total CAPEX
Underground mine	313	397	710
Waste & Water management	98	24	123
Power & electrical	19	-	19
Surface infrastructure	42	1	43
Process plant - Mine Site Complex	180	-	180
Construction indirects	95	-	95
Contingency (16.5%)	72	4	76
Capital costs	819	426	1,246
Pre-production net revenue	(150)	-	(150)
Pre-production operating costs	212	-	212
Equipment salvage value	-	(36)	(36)
Reclamation and closure costs	-	135	135
Total capital costs	881	525	1,406

1. Pre-final investment decision capital costs total \$38.6 million.

PERMITTING, ENVIRONMENTAL AND CLOSURE

Following the positive decision by the Environmental Assessment Office to grant the project an Environmental Assessment Certificate (#M23-01), the Project underwent a robust and rigorous review by a dedicated Mine Review Committee, set up by the Major Mines Office, and subsequently received the following permits for the Cariboo Gold Project:

- M-247 - Mines Act permit for the Mine Site Complex and Bonanza Ledge;
- M-198 - Mines Act permit for the QR Mill;
- PE-111511 - Environmental Management Act Permit for the Mine Site Complex;
- PE-17876 - Environmental Management Act Permit for Bonanza Ledge; and
- PE-12601 - Environmental Management Act Permit for QR Mill.

The *Mines Act* (British Columbia) permits received on November 20, 2024, grant the Company the ability to proceed with the construction, operation and reclamation activities on each of the sites outlined within the scope of the Project. The *Environmental Management Act* (British Columbia) permits pertain to any project-related discharges to the environment, including water and air, and the framework and limitations thereof, within the areas outside of the immediate mine site boundaries. These approvals mark the successful completion of the permitting process for key approvals, solidifying the Project's shovel-ready status.

Work is ongoing with the Ministry of Water, Land and Resource Stewardship and the Ministry of Forests on obtaining all necessary approvals for the construction of the transmission line, expected for H2 2025.

Changes as compared to the 2023 FS have been implemented in the Project's 2025 FS to align with the obtained permits. Major areas include:

- Adjustment of the reclamation costs and bonding requirements;
- Adjustment to the water balance and quality model;
- Design of the water treatment to align fully with discharge permits; and
- Design of the surface infrastructure and layout to align with the community impacts and mitigations.

STAKEHOLDER, COMMUNITY, AND PARTNER ENGAGEMENT

The Company is committed to advancing collaborative partnerships with Indigenous nations related to the Project as evidenced by many years of extensive consultation and the signing and ongoing implementation of the participation agreements with each of the Lhtako Dené Nation (in 2020) and the Williams Lake First Nation (in 2022).

The Company is working towards an agreement with the Xat??ll First Nation. While an agreement has not yet been reached, the Company remains committed to ongoing engagement and consultation. This includes good faith and reasonable offers for financial and other benefits along substantially similar frameworks as those agreed to by Lhtako Dené Nation and Williams Lake First Nation.

The Company continues to engage the District of Wells and signed an agreement to fund a Liaison Position which will be executed once a suitable candidate is found. The Liaison Position is a requirement of the EAC and will work with the local community to ensure communication between the District of Wells and the Company reflect the views of all community members. Further discussions on a community agreement will commence in Q2 2025.

The Company is dedicated to developing a modern, safe and sustainable operation at the Cariboo Gold Project, and remains committed to engaging in constructive dialogue to ensure all Indigenous nations and stakeholders benefit from the development of the Project, whilst ensuring it remains viable.

ADDITIONAL OPTIMIZATION OPPORTUNITIES

There are significant opportunities not included in the 2025 FS that could materially enhance the Project's economics, timing, and/or permitting-beyond those typical to all mining projects (such as changes in metals prices, exchange rates, and other variables). Additional information and further assessments are recommended to fully understand, quantify and potentially incorporate these opportunities into the Project's NI 43-101 feasibility-level economics.

The most significant opportunities identified to date are summarized below and have been broadly categorized based on their potential magnitude of positive impact on the Project's economics. A comprehensive list of all identified potential areas of opportunity will be discussed in greater detail in the Technical Report to be filed within 45 days of this news release.

High potential value opportunities:

- Significant conversion potential of existing Mineral Resources to Mineral Reserves with sufficient drilling density and incorporating appropriate modifying factors. Priority focus areas include such Mineral Resource that are not in the current mine plan, but located directly adjacent to or, in some cases, as extensions of planned Mineral Reserve stopes. By leveraging existing planned infrastructure, this could potentially increase recoverable ounces with minimal additional capital expenditures and potentially have a material impact on Project economics. Total Measured and Indicated Mineral Resources outside of the Mineral Reserves include 17.38 Mt at an average grade of 2.88 g/t for contained 1.61 Moz of gold. Total Inferred Resources outside of the Mineral Reserves include 18.77 Mt at an average grade of 3.09 g/t for contained 1.86 Moz of gold.

- The planned processing plant and surface infrastructure design have been strategically optimized to accommodate potential future expansion options. Opportunities for low capital cost expansion scenarios to increase throughput within the planned Project footprint will be explored and evaluated, provided sufficient additional Mineral Resources are converted to Mineral Reserves, and any required permit amendments are granted.

Medium potential value opportunities:

- Opportunities exist to increase mill recoveries by potentially disposing of rougher flotation tailings co-mingled with the ore sorter and development waste on surface.
- Pre-production ore toll milling of development material to generate revenue during the construction.
- Utilize pre-owned equipment to reduce upfront capital costs and development timelines.
- Explore alternative funding sources for certain off-site infrastructure.

CONFERENCE CALL AND WEBCAST DETAILS

Live event date and time Monday, April 28, 2025 at 11:00 a.m. ET

USA / International Toll +1 (646) 307-1963
USA - Toll-Free (800) 715-9871
Canada - Toronto (647) 932-3411
Canada - Toll-Free (800) 715-9871

Conference call details Conference ID: 5457156

Additional international dial-in numbers are available here:
<https://registrations.events/directory/international/itfs.html>

Webcast details <https://events.q4inc.com/attendee/466021363>

TECHNICAL INFORMATION AND QUALIFIED PERSONS

The 2025 FS was prepared in accordance with NI 43-101 with an effective date of April 22, 2025 and will be filed on SEDAR+ (www.sedarplus.ca) and on EDGAR (www.sec.gov) under Osisko Development's issuer profile within 45 days of the date of this news release.

The Technical Report supersedes the 2023 FS, which should no longer be relied upon.

For readers to fully understand the information in this news release, reference should be made to the full text of the Technical Report, once filed, including all assumptions, qualifications and limitations therein. The Technical Report is intended to be read as a whole, and sections should not be read or relied upon out of context.

The 2025 FS has been prepared by independent representatives of BBA, InnovExplo, a subsidiary of Norda Stelo, Alius, Falkirk, WSP, Okane, Integrated Sustainability, Clean Energy, and JDS, each of whom is a "qualified person" (within the meaning of NI 43-101) (each, a "QP"). Each QP is independent of Osisko Development and has reviewed and approved that this news release fairly and accurately reflects, in the form and context in which it appears, the information contained in the respective sections of the 2025 FS for which they are responsible. At the effective date of the 2025 FS, each QP has certified that, to the best of their knowledge, information, and belief, the parts of the 2025 FS for which they were responsible, contain all scientific and technical information required to be disclosed to make the 2025 FS not misleading. The affiliation and areas of responsibility for each QP involved in preparing the 2025 FS are provided below.

BBA QPs

- Mathieu Belisle, P.Eng. - Metallurgical test work analysis, Process Plant design, Process Plant capital and operating cost estimate
- Amanda Fitch, P.Eng. - Financial Cashflow and overall study integration

InnovExplo QPs

- Carl Pelletier, P.Geo. - Mineral Resources estimate
- Tessa Scott, P.Geo. - Mineral Resources estimate
- Eric Lecomte, P.Eng. - Mineral Reserves estimate, underground mine design and cost estimate

Alius QPs

- Sébastien Guido, P.Eng. - Geomechanical (rock mechanics) aspects of underground mine design

Falkirk QPs

- Katherine Mueller, P. Eng. - Environment, Permitting and Engagement
- Rob Griffith, P.Eng. - Site-wide water balance model
- Nikolay Sidenko, P. Geo. - Mine waste geochemistry and water quality predictions

WSP QPs

- Paul Gauthier, P.Eng. - Design and costs for underground paste fill network distribution and underground ore crushing system

Integrated Sustainability QPs

- AJ MacDonald, M.A.Sc., P.Eng., P.E. - Design and costs, water treatment plants

Okane QPs

- Rachel Sawyer, P.Eng. - Design of the surface waste rock storage facility
- Yapo Allé-Ando, M.A.Sc., P.Eng. - Design of the water management infrastructure on surface

Clean Energy QPs

- Philip Clark, P.Eng., P.E. - Power Supply Estimate

JDS QPs

- Jean-François Maillé, P.Eng. - Costs for waste, tailings and water management infrastructure. Indirect costs and construction costs

End Notes (excluding tables)

1. In this news release the Company uses certain abbreviations, including: net present value ("NPV"); NPV at a 5% discount rate ("NPV5%"); internal rate of return ("IRR"); measured and indicated ("M&I"); million ("m"); thousand ("k"); metric tonne ("t"); troy ounce ("oz"); grams per tonne ("g/t"); gold ("Au"); silver ("Ag"); life of mine ("LOM"); tonnes per day ("tpd"); free cash flow ("FCF"); years ("yrs"); per annum ("pa"); average ("avg."); life-of-mine ("LOM"); versus ("vs.").
2. Payback is calculated from commercial production, which is defined as the achievement of reaching a minimum of 30 consecutive days of operations during which the mill operated at an average of 60% of nameplate throughput of 4,900 tpd.
3. Based on S&P's Global Market Intelligence, Metals & Mining, 2024 global gold cost curve for TCC and AISC.
4. Based on the Investment Attractive Index as outlined in the Fraser Institute Annual Survey of Mining Companies (2023).
5. Technical report titled "*NI 43-101 Technical Report, Feasibility Study for the Cariboo Gold Project, District of Wells, British Columbia*" (as amended) dated January 12, 2023 (with an effective date of December 30, 2022) (the "2023 FS").

ABOUT OSISKO DEVELOPMENT CORP.

Osisko Development Corp. is a North American gold development company focused on past-producing

mining camps located in mining friendly jurisdictions with district scale potential. The Company's objective is to become an intermediate gold producer by advancing its flagship permitted 100%-owned Cariboo Gold Project, located in central B.C., Canada. Its project pipeline is complemented by the Tintic Project in the historic East Tintic mining district in Utah, U.S.A., and the San Antonio Gold Project in Sonora, Mexico-brownfield properties with significant exploration potential, extensive historical mining data, access to existing infrastructure and skilled labour. The Company's strategy is to develop attractive, long-life, socially and environmentally responsible mining assets, while minimizing exposure to development risk and growing mineral resources.

For further information, visit our website at www.osiskodev.com or contact:

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Tel: +1 (514) 940-0685	Tel: +1 (437) 423-3644

Appendix A: Detailed Cash Flow Model and Select Key Assumptions (excel file download of the below table)

Year	Unit	-3	-2	-1	1	2	3	4	5	6
Production Summary										
Total Tonnes Mined	kt	1.7	43.2	419.8	1,695.1	1,788.6	1,789.0	1,786.9	1,793.4	1,788.6
Total Tonnes Processed	kt	-	-	464.7	1,695.1	1,788.6	1,789.0	1,786.9	1,793.4	1,788.6
Head Grade Au	g/t	-	-	3.90	3.80	4.16	3.91	3.96	3.36	3.52
Payable Gold	koz	-	-	50.0	198.8	223.0	206.6	207.5	176.2	181.1
Revenue										
Exchange Rate	USD:CAD	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
Net Smelter Return (NSR) Revenue	\$M	-	-	-	629.4	707.5	654.7	657.9	556.5	573.0
Operating Expenses										
Mining	\$M	-	-	-	113.3	118.9	119.6	114.1	106.8	111.1
Processing	\$M	-	-	-	40.1	42.0	41.2	39.9	39.9	38.8
Waste and Water Management	\$M	-	-	-	8.5	8.1	8.6	8.6	8.6	8.6
Electrical Transmission Line	\$M	-	-	-	9.4	9.4	9.4	9.4	9.4	9.4
General and Administration	\$M	-	-	-	28.2	25.6	26.8	26.6	26.4	26.4
Royalty Payments	\$M	-	-	-	31.5	35.4	32.7	32.9	27.8	28.7
Total Operating Expenses	\$M	-	-	-	230.9	239.5	238.3	231.5	219.0	223.0
Total Cash Costs	US\$/oz	-	-	-	1,070	857	900	876	961	972
All-in Sustaining Costs	US\$/oz	-	-	-	1,409	1,071	1,135	1,069	1,175	1,123
Capital Expenditures										
Initial	\$M	168.2	487.3	225.3	-	-	-	-	-	-
Sustaining	\$M	-	-	-	91.2	64.3	65.5	54.1	50.8	36.6
Reclamation	\$M	-	-	-	-	-	-	-	-	-
Salvage Value	\$M	-	-	-	-	-	-	-	-	-
Total Capital Expenditures	\$M	168.2	487.3	225.3	91.2	64.3	65.5	54.1	50.8	36.6
Changes in Working Capital	\$M	-	-	-	41.4	3.5	-2.0	-0.5	-4.6	0.9
Pre-Tax Cash Flow										
Pre-Tax Cash Flow	\$M	-168.2	-487.3	-225.3	265.9	400.1	352.9	372.8	291.4	312.3
Cumulative Pre-Tax Cash Flow	\$M	-168.2	-655.5	-880.8	-614.9	-214.8	138.1	510.9	802.2	1,111.1
Taxes and Duties										
British Columbia Mining Duties	\$M	-	-	0.4	8.6	10.0	8.9	9.2	7.3	26.6
Federal Corporate Income Tax	\$M	-	-	-	-	-	15.2	39.6	30.3	32.7
British Columbia Corporate Income Tax	\$M	-	-	-	-	-	12.2	31.7	24.3	26.1
Carbon Tax	\$M	0.5	1.6	1.9	1.1	1.4	1.7	1.5	2.0	2.0
Total Taxes and Duties	\$M	0.5	1.6	2.3	9.7	11.4	38.1	81.9	63.9	87.5

After-Tax Cash Flow												
After- Tax Cash Flow		\$M	-168.8	-488.9	-227.7	256.2	388.7	314.8	290.8	227.5	225.	
Cumulative After- Tax Cash Flow		\$M	-168.8	-657.7	-885.3	-629.1	-240.4	74.4	365.2	592.7	818.	

Appendix B: Proposed Conceptual Site Layout

NON-IFRS FINANCIAL MEASURES

Osisko Development used in this news release, certain non-IFRS measures including, "all-in sustaining cost" or "AISC" and "total cash cost" and "free cash flow". 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, reclamation, income taxes, capital and exploration costs for the life of the mine. Free cash flow is calculated as cash flow from mine-site operating activities less capital expenditures. 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. Refer to the Technical Report, which will be made available on SEDAR+ (www.sedarplus.ca) under Company's issuer profile and on the corporate website (<https://osiskodev.com/projects/cariboo-gold/>) within 45-days of this news release.

CAUTIONARY STATEMENTS

Cautionary Statement Regarding Estimates of Mineral Resources

This news release uses the terms measured, indicated and inferred mineral resources as a relative measure of the level of confidence in the mineral resource estimate. Readers are cautioned that mineral resources are not mineral reserves and that the economic viability of resources that are not mineral reserves has not been demonstrated. The mineral resource estimate disclosed in this news release may be materially affected by geology, environmental, permitting, legal, title, socio-political, marketing or other relevant issues. Mineral Resources are reported using the 2014 CIM Definition Standards and were estimated in accordance with the CIM 2019 Best Practices Guidelines, as required by NI 43-101. Under NI 43-101, estimates of inferred mineral resources may not form the basis of feasibility or pre-feasibility studies or economic studies except for preliminary economic assessments. Readers are cautioned not to assume that further work on the stated mineral resources will lead to mineral reserves that can be mined economically.

Cautionary Statement Regarding Financing Risks

The Company's development and exploration activities are subject to financing risks. At the present time, the Company has exploration and development assets which may generate periodic revenues through test mining, but has no mines in the commercial production stage that generate positive cash flows. The Company cautions that test mining at its operations could be suspended at any time. The Company's ability to explore for and discover potential economic projects, and then to bring them into production, is highly dependent upon its ability to raise equity and debt capital in the financial markets. Any projects that the Company develops will require significant capital expenditures. To obtain such funds, the Company may sell additional securities including, but not limited to, the Company's shares or some form of convertible security, the effect of which may result in a substantial dilution of the equity interests of the Company's shareholders. Alternatively, the Company may also sell a part of its interest in an asset in order to raise capital. There is no assurance that the Company will be able to raise the funds required to continue its exploration programs and finance the development of any potentially economic deposit that is identified on acceptable terms or at all. The failure to obtain the necessary financing(s) could have a material adverse effect on the Company's growth strategy, results of operations, financial condition and project scheduling.

Cautionary Statement to U.S. Investors

The Company 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, including the information in its technical reports, financial statements, MD&A and this news release, in accordance with Canadian reporting requirements, which are governed by NI 43-101. As such, such information concerning mineral properties, mineralization and estimates of mineral reserves and mineral resources, including the information in its technical reports, financial statements, MD&A and this news release, is not comparable to similar information made public by U.S. companies subject to the reporting and disclosure requirements of the U.S. Securities and Exchange Commission ("SEC").

CAUTION REGARDING FORWARD LOOKING STATEMENTS

Certain statements contained in this news release may be deemed "forward-looking statements" within the meaning of the United States Private Securities Litigation Reform Act of 1995 and "forward-looking information" within the meaning of applicable Canadian securities legislation (together, "forward-looking statements"). These forward-looking statements, by their nature, require Osisko Development to make certain assumptions and necessarily involve known and unknown risks and uncertainties that could cause actual results to differ materially from those expressed or implied in these forward-looking statements. Forward-looking statements are not guarantees of performance. Words such as "may", "will", "would", "could", "expect", "believe", "plan", "anticipate", "intend", "estimate", "continue", or the negative or comparable terminology, as well as terms usually used in the future and the conditional, are intended to identify forward-looking statements. Information contained in forward-looking statements is based upon certain material assumptions that were applied in drawing a conclusion or making a forecast or projection, including the assumptions, qualifications and limitations relating to 2025 FS (including, but not limited to, the mineral resources, mineral reserves, production profile, mine design and project economics); the ability and timing of the Company to publish and file the Technical Report; the Company being construction and operation ready and the timing for the commencement of construction activities; the ability and timing of the Company to deliver any or all of the Additional Optimization Opportunities; the ability and timing of the Company to reach a formal positive final investment decision in respect of the Cariboo Gold Project; the ability and timing of the Company to secure a project financing package to fund construction activities at the Cariboo Gold Project and the terms of such financing; the impact and potential of the Cariboo Gold Project on shareholders, Indigenous nations and other stakeholders; the ability to successfully engage and collaborate with stakeholders, including reaching agreements with the Xat??li First Nation; sustainability and environmental impacts of operations at the Company's properties; progress in respect of pre-construction activities at Cariboo including bulk sample and underground development work; mineral resource category conversion; the timing and status of any additional required permits or amendments thereto, or other regulatory approval requirements; the future development and operations at the Cariboo Gold Project; the results of ongoing stakeholder engagement; the capital resources available to the Company; the ability of the Company to execute its planned activities, including as a result of its ability to seek additional funding; management's perceptions of historical trends, current conditions and expected future developments; the ability and timing for Cariboo Gold Project to reach commercial production (if at all); the expected cash flow (and underlying assumptions) in respect of the Cariboo Gold Project; the results (if any) of further exploration work to define and expand mineral resources; the ability of exploration work (including drilling) to accurately predict mineralization; the ability of the Company to expand mineral resources beyond current mineral resource estimates and to convert some or all of these mineral resources to mineral reserves; the ability for the Company to expand throughput or increase production at the Cariboo Gold Project; the ability of the Company to discover additional deposits within the Cariboo Gold Project area; the ability of the Company to complete its exploration and development objectives for its projects in the timing contemplated and within expected costs (if at all); the ability to derisk the Cariboo Gold Project towards final investment decision; the ability to adapt to changes in gold prices, estimates of costs, estimates of planned exploration and development expenditures; the ability of the Company to obtain further capital on reasonable terms; the profitability (if at all) of the Company's operations; the availability of additional optimization opportunities at the Cariboo Gold Project and the impact thereof on project economics; as well as other considerations that are believed to be appropriate in the circumstances, and any other information herein that is not a historical fact may be "forward looking information". Material assumptions also include, assumptions and qualifications underlying the 2025 FS, management's perceptions of historical trends, management's understanding of the permitting process and status thereof, the ability of exploration (including drilling and chip sampling assays, and face sampling) to accurately predict mineralization; budget constraints and access to capital on terms acceptable to the Company, current conditions and expected future developments, regulatory framework remaining defined and understood, results of further exploration work to define or expand any mineral resources, gold prices, the costs required to advance the Cariboo Gold Project to construction, the results of the 2025 FS as an indicator of quality and robustness of the Cariboo Gold Project, as well as other considerations that are believed to be appropriate in the circumstances. Osisko Development considers its

assumptions to be reasonable based on information currently available, but cautions the reader that their assumptions regarding future events, many of which are beyond the control of Osisko Development, may ultimately prove to be incorrect since they are subject to risks and uncertainties that affect Osisko Development and its business. Such risks and uncertainties include, among others, risks relating to third-party approvals, including the issuance of permits by the government, capital market conditions and the Company's ability to access capital on terms acceptable to the Company for the contemplated exploration and development at the Company's properties; the ability to continue current operations and exploration; regulatory framework and presence of laws and regulations that may impose restrictions on mining; the ability of exploration activities (including drill results and chip sampling, and face sampling results) to accurately predict mineralization; errors in management's geological modelling; the timing and ability of the Company to obtain and maintain required approvals and permits; the results of exploration activities; risks relating to exploration, development and mining activities; the global economic climate; metal and commodity prices; fluctuations in the currency markets; dilution; environmental risks; and community, non-governmental and governmental actions and the impact of stakeholder actions. Readers are urged to consult the disclosure provided under the heading "Risk Factors" in the Company's annual information form for the year ended December 31, 2024 as well as the financial statements and MD&A for the year ended December 31, 2024, which have been filed on SEDAR+ (www.sedarplus.ca) under Osisko Development's issuer profile and on the SEC's EDGAR website (www.sec.gov), for further information regarding the risks and other factors facing the Company, its business and operations. Although the Company's believes the expectations conveyed by the forward-looking statements are reasonable based on information available as of the date hereof, no assurances can be given as to future results, levels of activity and achievements. The Company disclaims any obligation to update any forward-looking statements, whether as a result of new information, future events or results or otherwise, except as required by law. Forward-looking statements are not guarantees of performance and there can be no assurance that these forward-looking statements will prove to be accurate, as actual results and future events could differ materially from those anticipated in such statements. Accordingly, readers should not place undue reliance on forward-looking statements.

Neither the TSX Venture Exchange nor its Regulation Services Provider (as that term is defined in the policies of the TSX Venture Exchange) accepts responsibility for the adequacy or accuracy of this news release. No stock exchange, securities commission or other regulatory authority has approved or disapproved the information contained herein.

(All dollar amounts are expressed in CAD dollars, unless stated otherwise)

Photos accompanying this announcement are available at:

<https://www.globenewswire.com/NewsRoom/AttachmentNg/f1f23a2a-cd40-4b4b-b691-85f4565a0981>

<https://www.globenewswire.com/NewsRoom/AttachmentNg/8ed59855-b03c-4ccd-bc2f-2c669c96d7d1>

<https://www.globenewswire.com/NewsRoom/AttachmentNg/21f03f6f-3990-4df1-8b7b-3fac4a4c0f4c>

<https://www.globenewswire.com/NewsRoom/AttachmentNg/5f4902b9-d24c-442e-bc24-f39d2431d810>

<https://www.globenewswire.com/NewsRoom/AttachmentNg/bc4bbca1-e618-494f-beb4-3338307d7678>

<https://www.globenewswire.com/NewsRoom/AttachmentNg/37ed6754-7d56-4d7c-8110-f68ef60a6d7e>

<https://www.globenewswire.com/NewsRoom/AttachmentNg/fe9126e7-463f-4257-b932-8c934b38e2a1>

<https://www.globenewswire.com/NewsRoom/AttachmentNg/38f00cea-25e5-4b76-a3d0-c70714543f82>

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<https://www.rohstoff-welt.de/news/690022-Osisko-Development-Announces-Optimized-Feasibility-Study-for-Permitted-Cariboo-Gold-Project.html>

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