CSE: RGR | OTCQB: RGRLF | FSE: 488
WKN: A40Z5N

Rio Grande Resources

Historical High-Grade District | Modern Exploration | Anticipated Phase 1 Drill Targeting

Fall 2026 Investor Presentation

riograndereources.ca

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Such forward-looking statements and information include, without limitation "plans for the evaluation of exploration properties including the Ivanhoe, Emporia and Little Granite, and Poverty Creek; the success of evaluation plans; the success of exploration activities; mine development prospects; potential for future metals production; changes in economic parameters and assumptions; all aspects related to the timing and extent of exploration activities ; timing of receipt of exploration results; the interpretation and actual results of current exploration activities and mineralization; changes in project parameters as plans continue to be refined; the results of regulatory and permitting processes; future metals price; possible variations in grade or recovery rates; failure of equipment or processes to operate as anticipated; labour disputes and other risks of the mining industry; the results of economic and technical studies; delays in obtaining governmental and local approvals or financing or in the completion of exploration; and timing of assay results.

Gareth Flitton, CPG, a full-time employee of Dahrouge Geological Consulting, is a Qualified Person as defined by National Instrument 43-101 – Standards of Disclosure for Mineral Projects. Mr. Flitton has reviewed and approved the scientific and technical information contained in this news release.

Rio Grande Resources

- ✓ **HISTORICAL**
  High-Grade Mining District
- ✓ **TODAY**
  Modern Exploration
- ✓ **FUTURE**
  Potential District-Scale Discovery

CSE: RGR **OTCQB:** RGRLF **FSE:** 488

RIO GRANDE RESOURCES

Who are We?

Rio Grande Resources is a gold-silver exploration company focused on unlocking the district-scale potential of the historical Winston Mining District in New Mexico

Our mission is to transform the historical high-grade mining district into a modern gold-silver discovery opportunity.

We are reimagining this project with updated, modern exploration lens; connecting past production with the potential for a new generation of discoveries.

PROJECT LOCATION MAP

RIO GRANDE RESOURCES

Rio Grande controls the broader **Winston Group of Properties within its 147** unpatented BLM mining claims and **two patented lode mining claims**, across ~3,000-acre, drill-ready gold-silver property located in the historic Chloride Mining District within the Black Range Mountains of Sierra County, New Mexico, USA.

The property hosts three historical high-grade gold-silver mines — Ivanhoe, Emporia and Little Granite — together with the emerging Poverty Creek Project, where recent exploration has identified high-grade gold and silver mineralization and expanded the project's exploration potential beyond the historical mines areas.

RIO GRANDE HIGHLIGHTS

EARLY EXPOSURE
Strategic exposure to high-potential gold and silver projects offers significant discovery upside, complementing core gold holdings.

POVERTY CREEK
Poverty Creek has become a key focus area after recent work traced multiple mineralized vein systems and defined several structural corridors across defined drill target area.

LOCATION
The projects is in an area of New Mexico that is not only geologically promising but also has a significant past with gold and silver production

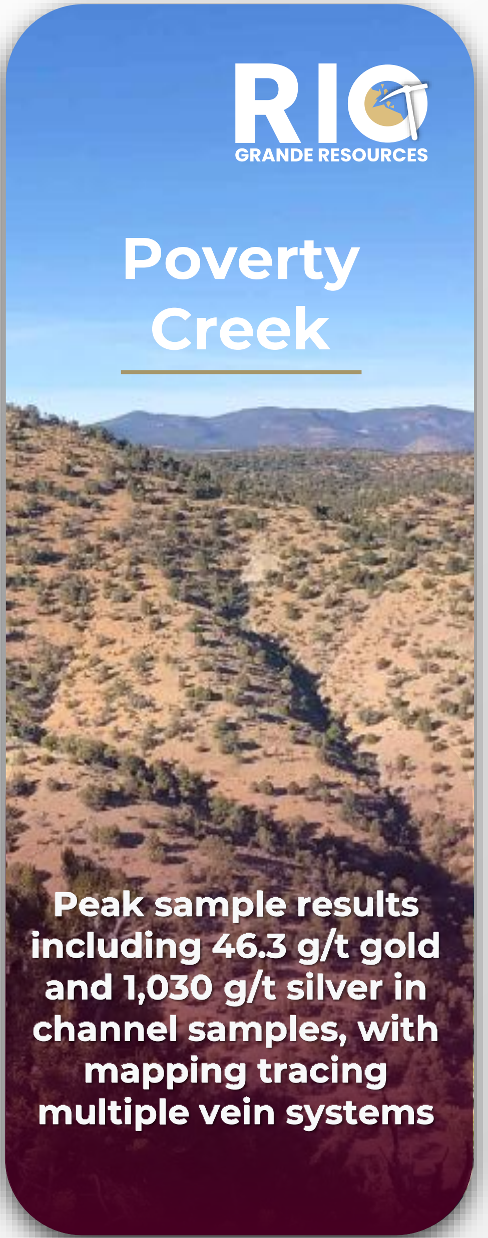
MARKET CONDITIONS
Ideal environment for advancing projects, attracting capital, and creating shareholder value conditions as gold and silver hits historic highs

DAHROUGE GEOLOGICAL CONSULTING
Brings more than 50 years of mineral exploration experience and proven success in discovery large multidisciplinary team focused on advancing projects from target generation through discovery and development

HIGH-GRADE MINERALIZATION

Winston Group of Properties Highlights

Historical high-grade mines including the emerging Poverty Creek target area create a broader Winston exploration story



Geological Highlights

Winston's exploration story spans more than a century, from high-grade gold-silver mining in the historical Chloride District to modern exploration across a much broader property position.

Recent programs have brought systematic sampling, structural mapping and geophysics to an area historically explored largely through individual mines and veins—providing a new framework for identifying and advancing targets such as Poverty Creek.

RIO GRANDE RESOURCES

A structurally controlled gold-silver system with multiple emerging target areas

4 Projects

Historic High-Grade Mining District

Winston is located within a long history of established past-producing gold-silver mines including Ivanhoe, Emporia and Little Granite including newer target areas, at the Poverty Creek

CRD

Mineralization

Mineralization hosted within structural trends known for historical gold and silver deposits with potential for CRD style Carbonate Replacement Deposits" (bulk tonnage) at fault intersections

Dozens

Target Potential

Mapping, sampling and airborne geophysics documents mineralization epithermal type (close to surface) provide drill-ready targets for a planned phase 1 drill program

Advancing a Potential

Gold-silver District-scale Opportunity

Rio Grande is reinterpreting the Winston Group of Properties through a modern exploration lens, integrating surface sampling, structural mapping, historical data and airborne geophysics to define high-confidence targets in the project's anticipated upcoming inaugural Phase 1 drill program.

With past-producing mines and advancing drill-ready targets

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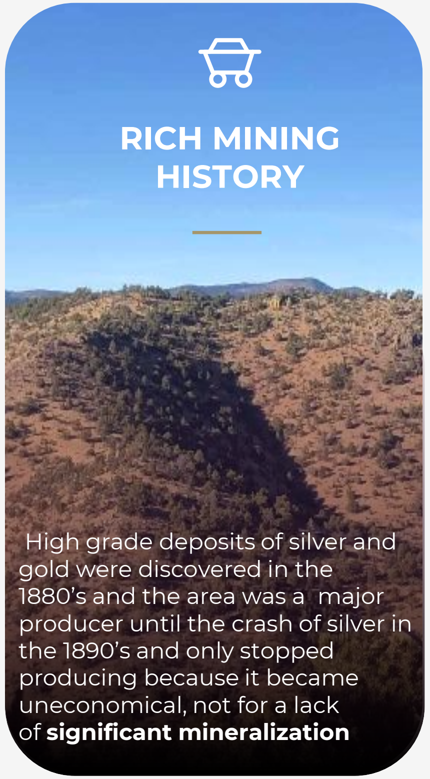
The Winston Group of Property Highlights

1

EXPANSIVE PROPERTY

Anchored by the historical **Ivanhoe, Emporia and Little Granite mines, with Poverty Creek** emerging as a new priority exploration target within 139 claims along a 5-mile stretch from N to S

2



RICH MINING HISTORY

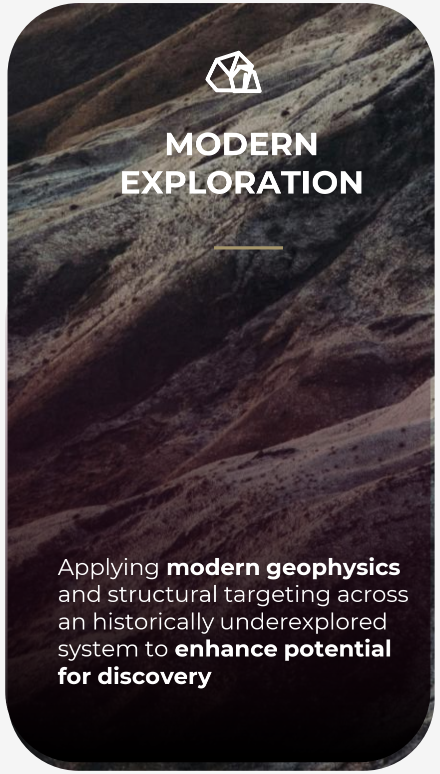
High grade deposits of silver and gold were discovered in the 1880's and the area was a major producer until the crash of silver in the 1890's and only stopped producing because it became uneconomical, not for a lack of **significant mineralization**

3

EXCITING GEOLOGY

A precious metal-endowed low-sulfidation epithermal vein system within the 25km long Paymaster Fault, a structural feature associated with historical gold-silver vein deposits

4



MODERN EXPLORATION

Applying **modern geophysics** and structural targeting across an historically underexplored system to **enhance potential for discovery**

POTENTIAL DISTRICT-SCALE LAND POSITION

PROVEN MINING DISTRICT

FERTILE EPITHERMAL SYSTEM

NEW TARGETS EMERGING

POVERTY CREEK

Emerging High-Grade Target Corridor at Winston

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Recent fieldwork has advanced Poverty Creek into a priority target area by connecting high-grade surface results with mapped vein corridors and Phase 1 drill targeting

46.3 g/t Au	67.1 g/t Au	26.1 g/t Au
and 1,030 g/t Ag in channel samples	in grab samples	and 348 g/t Ag in rock-chip samples

Why Poverty Creek Matters

- ✓ **Multiple mineralized structural corridors defined across the target area**
  Structural mapping refined vein orientation, geometry and continuity
- ✓ **High-grade mineralization confirmed across multiple sample types**
  Channel, grab and rock-chip results support target quality
- ✓ **Initial Phase 1 drill pad locations established**
  Modern data integration is prioritizing drill-ready targets

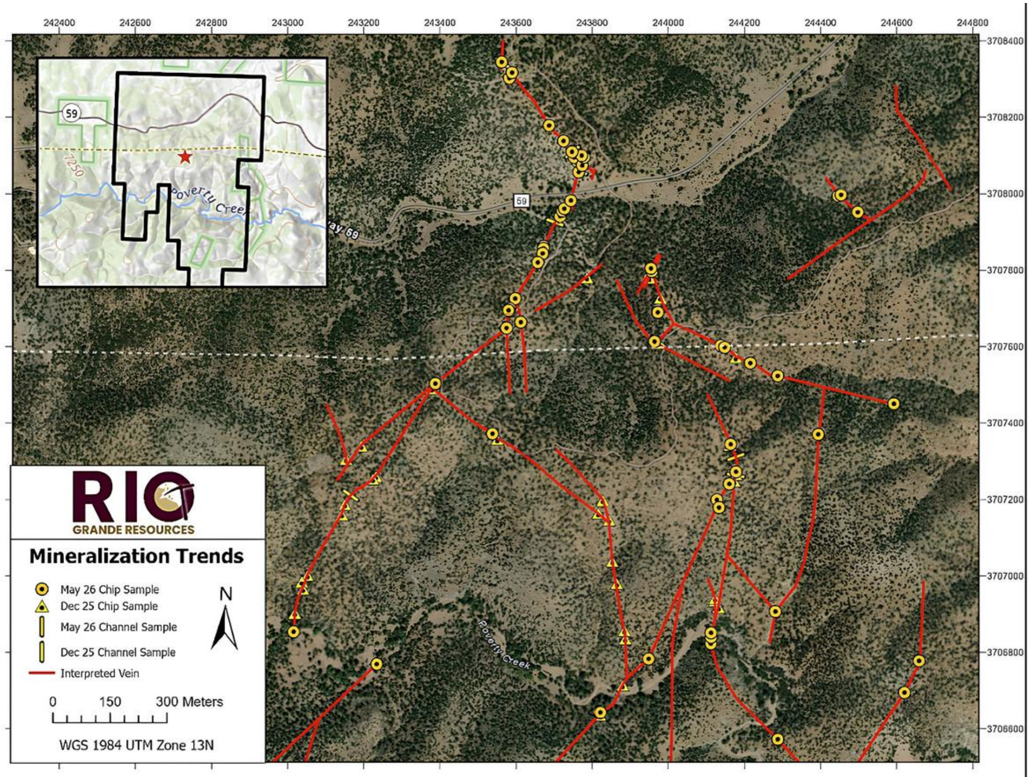

Figure 1: Mapped mineralization trends and sample locations in the Poverty Creek target area

Poverty Creek expands Winston beyond the historic mine areas and supports a broader, district-scale epithermal gold-silver targeting story.

2026 EXPLORATION

Integrated Exploration Returns Promising District Scale Potential

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Systematic Exploration Approach

2026 program integrated mapping, sampling, and historic data with 72 samples collected across multiple target areas

High-Grade Results Across Multiple Zones

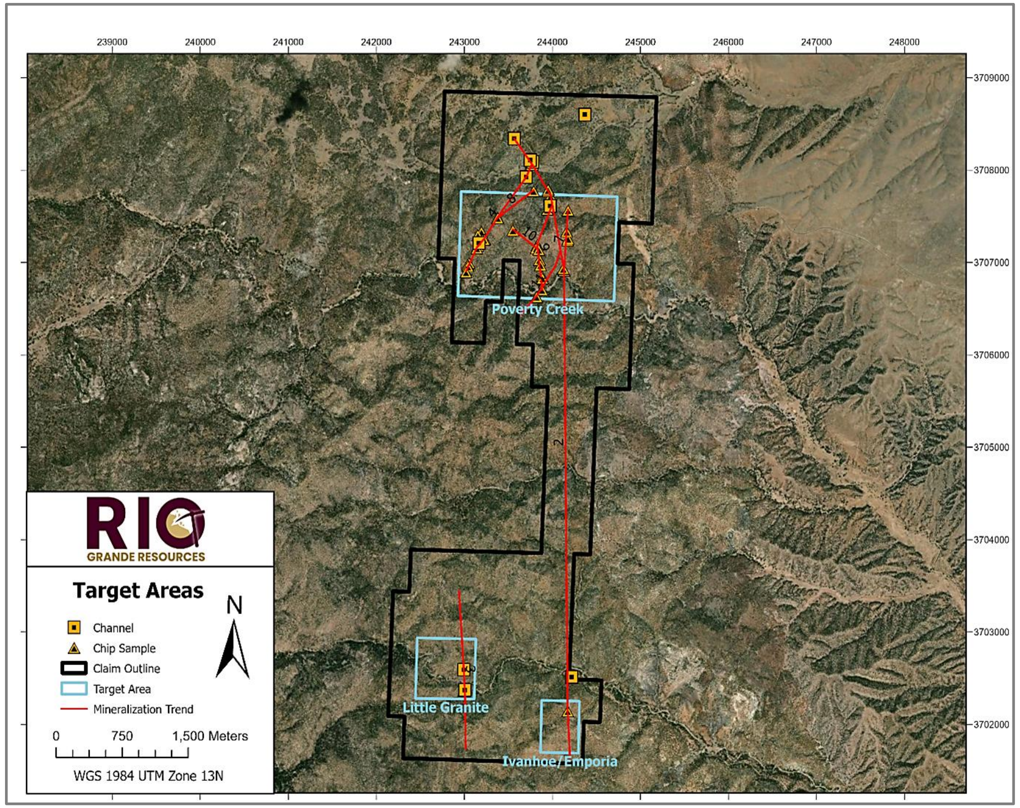
- Up to **41.2 g/t Au** and **1,435 g/t Ag**
- Mineralization identified at:
  - Poverty Creek (new)
  - Ivanhoe–Emporia
  - Little Granite

Emerging Geological Model

- Structurally controlled epithermal system
- Multiple vein orientations and intersections
- Evidence for **stacked/plunging high-grade shoots**

Sample Highlights Include:*

Sample ID	Au (g/t)	Ag (g/t)
WIN-120725-16	**29.5**	**1,435**
WIN-120725-17	6.3	605
WIN-120725-18	4.34	303
25-WIN-G-CH	9.87	291



Target Areas and Interpreted Mineralized Trends Across the Winston Project

Multiple mineralized trends identified across a structurally controlled system

*For a list of full assay results please visit Riograndereresources.ca

2026 AIRBORNE GEOPHYSICS

Mag Survey Defines Potential Structural Framework and Subsurface Targets

Property-Wide Geophysics Identifies New Drill Targets

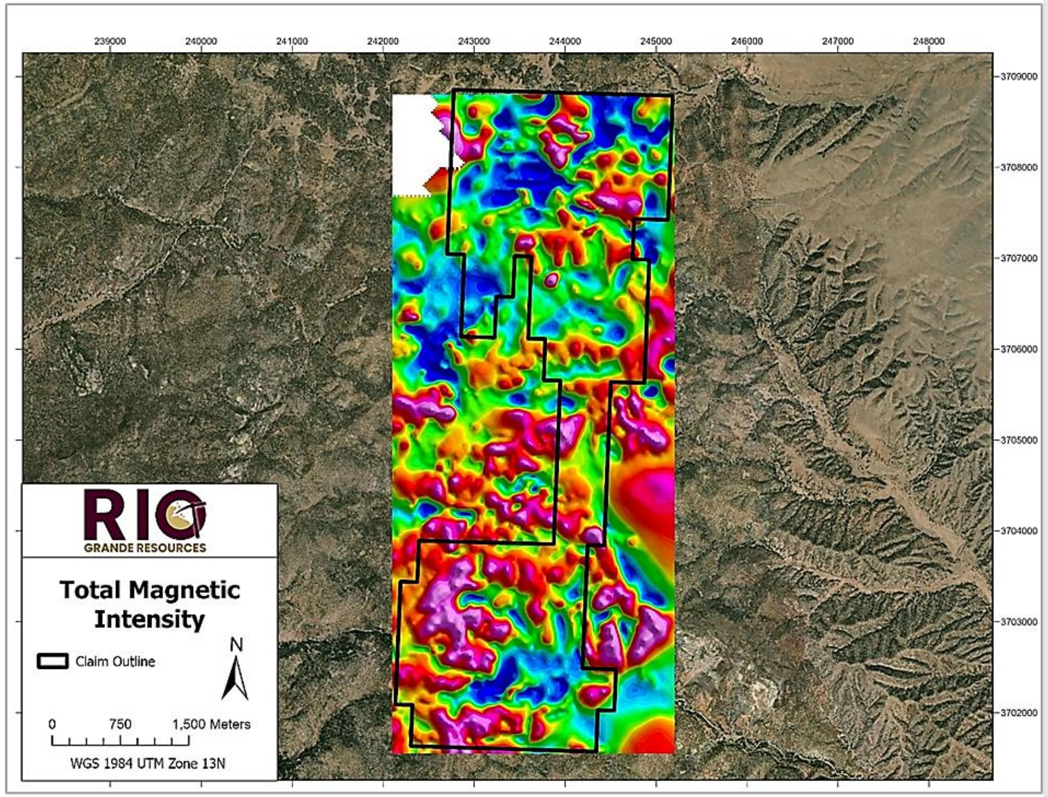
Airborne high-resolution magnetic and radiometric survey program conducted in Spring of 2026, completed 384 line km flown at 50 m spacing, and covered ~19.2 km^2 which represents 100% of project area

Technical Outcomes

- Multiple linear magnetic trends interpreted as fault corridors
- Zones of magnetic disruption indicating structural complexity
- Radiometric anomalies (U/Th ratios) highlighting hydrothermal alteration

Exploration Significance

- Confirms structural controls on mineralization
- Identifies previously untested subsurface targets
- Expands targeting beyond surface-defined zones



Geophysics adds a subsurface targeting layer across a structurally complex mineralized system

ADDITIONAL EXPLORATION

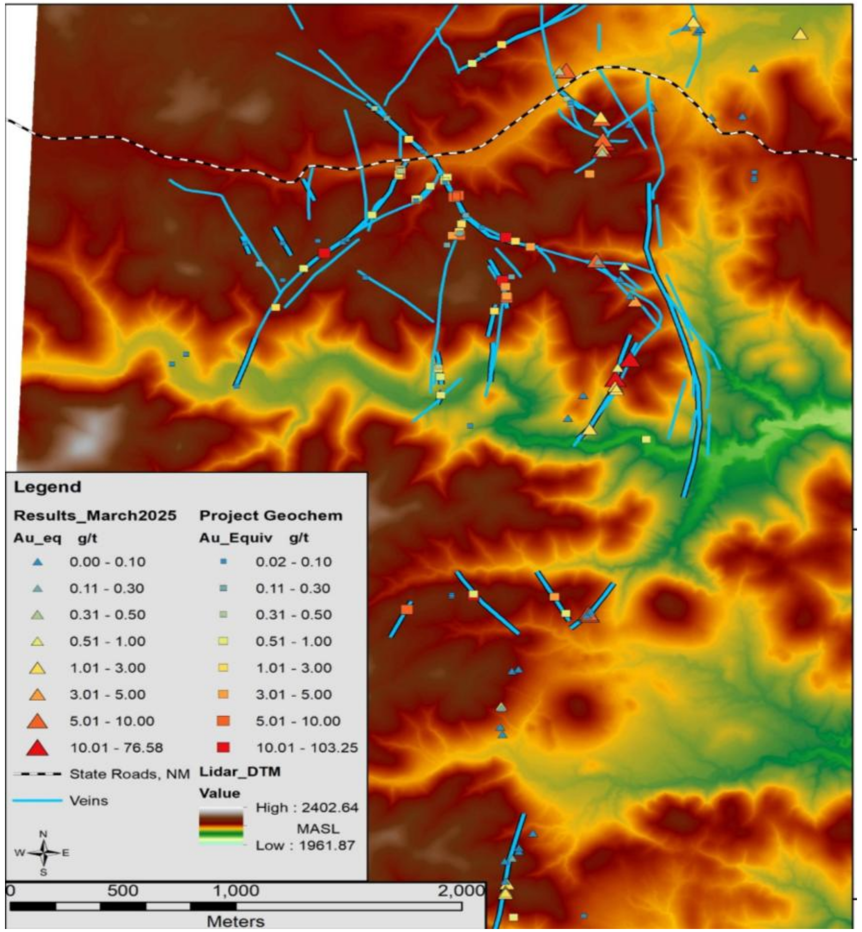
2025 Exploration Results Expanding a Multi-Phase System

The program released results on June 18, 2025, focused on the Paymaster Fault Corridor and identified several new mineralized veins and confirmed high-grade gold and silver mineralization across multiple vein systems

Highlights Include

- Assay Results include 66.2 g/t Gold and 830 g/t Silver
- 1.5km of continuous mineralization confirmed along Paymaster Fault corridor
- 1 sample assayed 2.76% Cu from a historic 20ft shaft on a copper-oxidized andesite breccia

These results serve to reinforce the project's exploration potential and indicate that a large, **multi-phase hydrothermal system is present** with future field work focused on expanding geochemical footprints



Property Map with New Results Illustrated as Coloured Triangles.

THE WINSTON PROPERTY HISTORY

Ivanhoe & Emporia and Little Granite

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Each mine produced high-grade gold and silver during full-time operations over a century ago, underscored by Little Granite producing high value ore in some of its underground shoots.

- **The Ivanhoe and Emporia patented mining claims** each contain a past producing gold-silver mine, under the same names. High grade deposits of silver and gold were discovered in 1880 when the Chloride District was a major producer until the 1893 crash in silver price
- The property last was drilled in the 1980s, at multiple targets within the Winston Property
- **The Little Granite Mine** completed a 1984 diamond drilling program for seven (7) boreholes and based on historical records, every borehole hit meaningful gold and silver values.

The Winston Property has had little to no modern exploration since the early 1980’s

THE LITTLE GRANITE MINING CLAIMS HISTORY

Four claims Comprised of Past-Producing High-Grade Silver-Gold Mine hosted in Tertiary volcanics

RIO GRANDE RESOURCES

Each mine produced high-grade gold and silver during full-time operations over a century ago

The main vein has been traced over 200 metres by past drilling and underground workings and remains open along strike to both the north and south, and at depth

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Historical reporting suggests the vein widens to approx 3m (10ft) at depth, with high-grade values, confirmed by Foremost in 2020, during a sampling program

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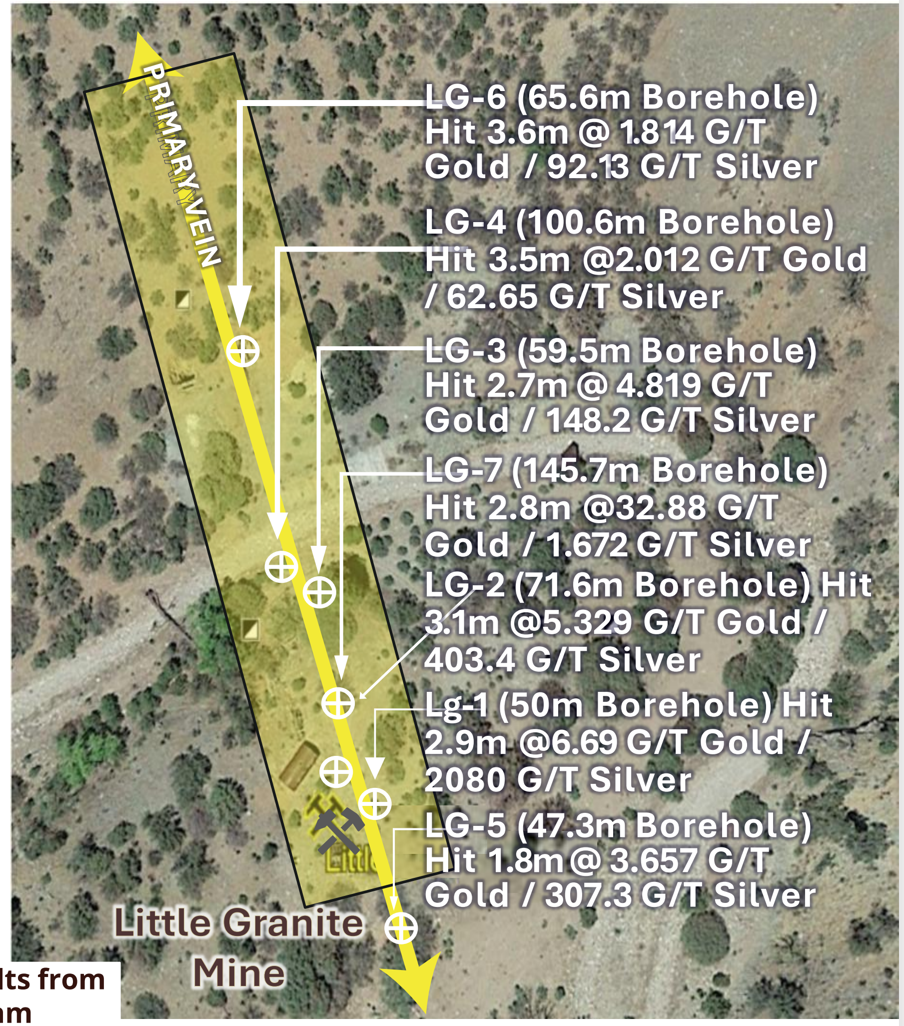
Results of the 1984 seven (7) borehole diamond drilling program are in table below. Gold values increased with depth and were highest in the deepest (LG-7) borehole 1.16 ounces per ton of Gold (32.88 g/t)

Hole	Bearing	Dip	Vein From	Vein To	AU G/T	AG/GT	Apparent Thickness	True Thickness	Total Depth
LG-2	S 72° W	-78°	157.0 FT	172.0 FT	16.69	2080	15.00 FT (4.6 M)	9.64 FT (2.9 M)	164.0 FT (50.0 M)
LG-2	0	-90°	216.0 FT	232.0 FT	5.329	403.4	16.00 FT (4.9 M)	10.28 FT (3.1 M)	235.0 FT (71.6 M)
LG-3	N 86° W	-80°	193.5 FT	207.5 FT	4.819	148.2	14.00 FT (4.3 M)	9.00 FT (2.7 M)	195.0 FT (59.5 M)
LG-4	0	-90°	221.0 FT	239.0 FT	2.012	62.65	18.00 FT (5.5 M)	11.57 FT (3.5 M)	330.0 FT (100.6 M)
LG-5	0	-90°	139.0 FT	148.0 FT	3.657	307.3	9.00 FT (2.7 M)	5.78 FT (1.8 M)	155.0 FT (47.3 M)
LG-6	N 77° W	-81°	190.0 FT	207.0 FT	1.814	92.13	17.50 FT (5.3 M)	11.82 FT (3.6 M)	215.0 FT (65.6 M)
LG-7	N 90° W	-79°	441.5 FT	456.0 FT	32.88	1.672	14.50 FT (4.4 M)	9.32 FT (2.8 M)	478.0 FT (145.7 M)



*Historical results from 1984 drill program

*The estimated potential of the quantity and grade of the mineralization listed above is conceptual in nature and there has been insufficient exploration to define a mineral resource using NI 43-101 guidelines. Additionally, it is uncertain if further exploration will result in the targets being delineated as a mineral resource. The expressed potential of the targets is based on the results of extensive historical underground channel sampling and bulk sampling of surface dumps.

THE IVANHOE EMPORIA CLAIMS HISTORY

A Past Producing Gold-Silver Mine Comprised of 2 Patented Lode Claims

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The main shaft has a depth of 384 feet with a 370ft decline

- Three (3) samples were collected from piles of quartz dump material near the mouth of the mine excavated in the early 1980s
- Two (2) of these composite samples, representative of the main style of quartz present, returned values of 179 g/t Ag and 2.9 g/t Au and 170 g/t Ag and 6.7 g/t
- A third composite sample of fine-grained grey "cherty" quartz material found on one of the dumps returning values of 1,439 g/t Ag and 25.2 g/t Au

MINE	EXPL TGT SIZE (tons)	AU (opt)	AG (opt)	AU + AG	BASIS OF ESTIMATE	REFERENCE *
Emporia & Ivanhoe	8,704 to 350,000	0.146 to 0.248	4.46 to 15.75	NR	7 composite bulk dump samples from 64 pits	Daffron (1978)
Emporia & Ivanhoe	191,000 to 350,000	0.005 to 2.470	1.93 to 39.00	NR	18 channel samples + 22 channel samples	Lemback (1978) Ristorcelli (1980)
Emporia & Ivanhoe	16,566 to 121,066	0.055 to 0.056	6.23 to 7.77	NR	94 channel samples + 55 channel samples	Freeman (1986) Freeman (1989)

Table Displays Historical Data based on Exploration Target for Combined Emporia and Ivanhoe Mines, Sierra County, New Mexico (Based on Entwhistle, 1944; Entwhistle, 1948; Ristorcelli, 1980; Freeman, 1986; and Freeman, 1989)

Mining in this area ceased due to the decline in the price of silver and gold; not for a lack of significant mineralization suggesting that significant potential of this region remains exciting

***The estimated potential of the quantity and grade of the mineralization listed above is conceptual in nature and there has been insufficient exploration to define a mineral resource using NI 43-101 guidelines. Additionally, it is uncertain if further exploration will result in the targets being delineated as a mineral resource. The expressed potential of the targets is based on the results of extensive historical underground channel sampling and bulk sampling of surface dumps.**

2021 SAMPLE PROGRAM

Little Granite, Ivanhoe & Emporia Mines

Many high-grade samples were collected under Michael Feinstein, CPG, QP, who visited the Winston Project area on ten separate occasions since October 2020 where he conducted confirmatory sampling of the known historic mines, as well as prospecting away from the known occurrences

Peak Values Sampled	
Gold	66.5 g/t
Silver	4,610 g/t

Mine	Grams per Ton Gold	Grams per Ton Silver
Little Granite	66.5	2,940
Ivanhoe	26.8	940
Emporia	44.9	517
Prospecting Best	41.5	4,610

Ivanhoe Mine Visible Gold

Little to no modern exploration since the early 1980's with a potential for district-scale discovery in a precious metal endowed low-sulphidation epithermal vein system.

EXPLORATION WORKFLOW

A Modern Exploration Model

Building targets from surface evidence to drill-ready locations for Rio's first anticipated Phase 1 drill program

01 Surface Sampling

Channel, grab and rock chip sampling to identify mineralized vein exposures.

02 Structural Mapping

Mapping of vein orientations, faults and alteration to define controls on mineralization.

03 Airborne Geophysics

Magnetic and radiometric data used to identify structural corridors and alteration zones.

04 Integrated Targeting

Historical data, assays, mapping and geophysics are combined to prioritize targets.

05 Phase 1 Drilling

Priority targets move into the first planned modern drill program in decades.

CAPITALIZATION & BALANCE SHEET

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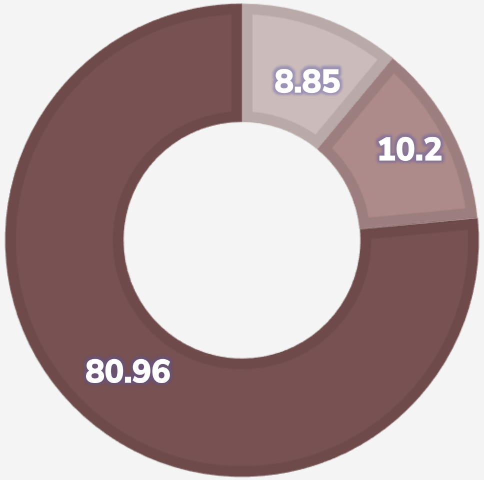
Share Structure



	80.95%	Retail & Other
	~8.85%	Foremost
	~10.2%	Management, Directors & Insiders

TICKER:	CSE:RGR OTCQB: RGRLF
Share Price as of August 26, 2026	$.42.5
Share Price Range(1)	C$.15 – C$.56
Basic Shares Outstanding(2)	59.55M
Options(2)	1.97M
RSUs(2)	1.58M
Warrants(2)	11.4M
FD Shares Outstanding(2)	61.76
Market Capitalization (Basic) (2)	C$25.30M

Prices are in CND DOLLARS

1. *Range from August, 2025 to August, 2026*
2. *As of September 11, 2026*

MANAGEMENT AND DIRECTORS

RIO GRANDE RESOURCES

Jason Barnard
CEO and Director

Mr. Barnard is also the President and CEO of Foremost Clean Energy since 2022. He has 28+ years experience in global capital markets and been involved in raising over $500 million dollars for mining and exploration companies

Christina Barnard
President

Ms. Barnard has over 20 years of public company experience in key areas including operational management. She had a major role in Rio Grande's formation. And has held senior roles at Foremost Clean Energy since 2020, supporting major milestones including its 2023 Nasdaq listing.

Curtis Bouwman
Chief Financial Officer

Mr. Bouwman has been working with public markets on the NASDAQ and the CSE Exchange since 2022. He obtained his Bachelor of Commerce with a major in Management, Economics, and Finance from the University of Guelph.

Ray Strafehl
VP of Corporate Development and Director

Mr. Strafehl has over two decades of experience in the finance and resource sectors, serving as a director and officer including Tearlach, Goldex and NickleOne. He was an adviser to the $300 million merger of Valley High Ventures Ltd. and Levon Resources Ltd. in 2011.

Richard Silas
Independent Director

Mr. Silas as extensive experience in public companies having served as CFO, officer, corporate secretary, or director for several organizations. He currently is a director, and the Vice President of Corporate Development and the Corporate Secretary of Guanajuato Silver Company Ltd.

GOLD INDUSTRY OVERVIEW

Strong Macro-Economic Trends is Driving Gold to All-Time Highs

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Gold has a variety of uses, including jewelry, electronics and as a store of value. Central banks have been active buyers of gold, providing consistent buying pressure purchasing a record 992 tons in 2024 and 863 tons in 2025

- **Gold surged to a record high of USD $5,603 per ounce in January 2026.**[2]

- **Despite pulling back from its January 2026 high, gold remains supported by inflation concerns, geopolitical uncertainty and sustained central-bank demand, reinforcing its role as a store of value and portfolio diversifier.**

- Record-high gold prices usually indicate economic uncertainty, as investors seek stability. It can also signal inflationary pressures and shifts in monetary policy, reflecting broader economic trends.

Global gold demand exceeded 5,000 tons for the first time. The surge was driven by massive 801-tonne ETF inflows, 12-year high bar/coin demand, and continued strong central bank purchasing.[1] Technology demand remained stable at 323t for the year, bolstered by AI-related applications.

1. World Gold Council Gold Demand Trends Q4
2.. Arumrates.com

SILVER INDUSTRY OVERVIEW

Silver Reached All Time Highs in 2026

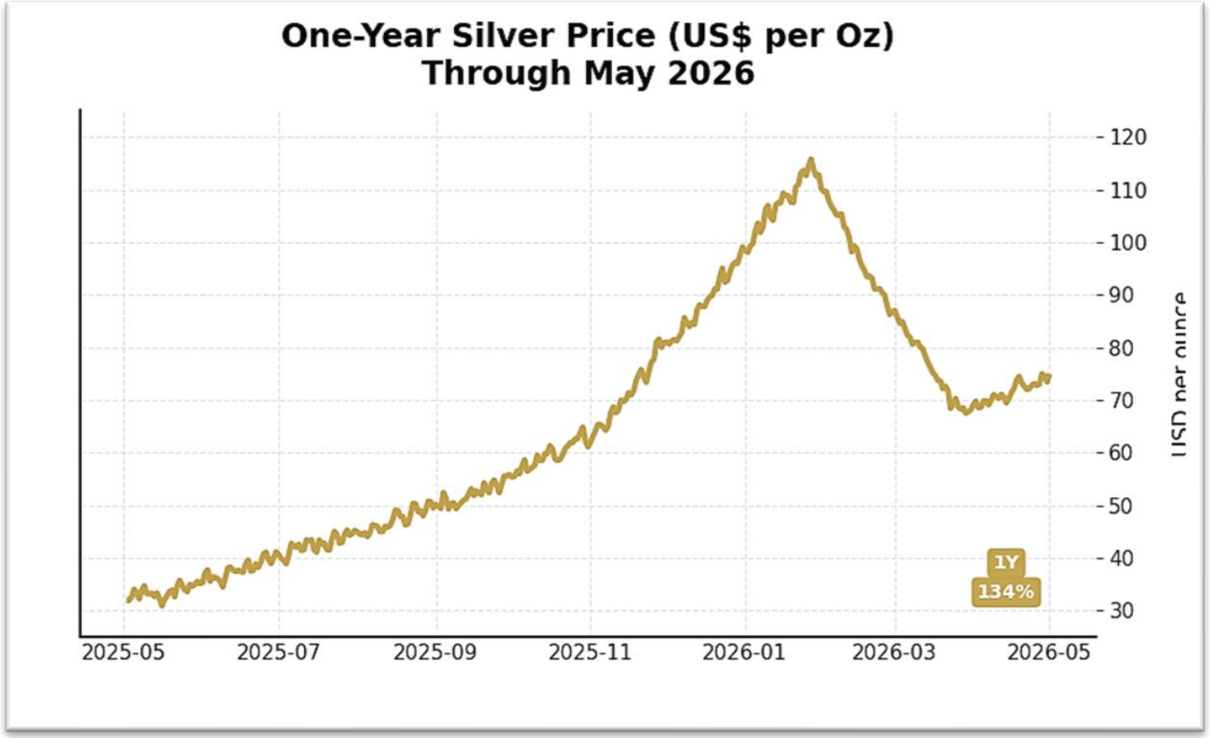
RIO GRANDE RESOURCES

Silver demand could structurally outstrip supply, as demand for the industrial metal continues to grow

- Silver has preformed exceptionally well surging to an all time high of **USD $121.62 per ounce** in January 2026

- **Silver pricing is being driven by strong industrial growth**, investor demand, and supportive economic conditions. Silver's critical industrial applications are a major price support. It is heavily used in electronics, solar panels, electric vehicles (EVs), and renewable energy technologies.

- Monetary Stress & Sovereign Demand: Silver is increasingly viewed **as a monetary hedge alongside gold due** to geopolitical uncertainty and inflationary pressure



Silver Outlook for 2026

Silver is uniquely positioned to outperform in an environment where both inflation risk and industrial demand are rising simultaneously. Understanding the metal's fundamentals, not just its price, will be key as silver enters the next phase of its bull market.

Data Source: https://economictimes.indiatimes.com/news/international/us/you-thought-gold-price-was-skyrocketing-wait-heres-how-silver-has-performed-in-2025-were-you-late-to-buy/articleshow/124166344.cms?from=mdr

WHY INVEST?

Historic proof, new targets and a clear path toward drilling

High-Grade Potential District

Past-producing Ivanhoe, Emporia and Little Granite mines demonstrate a long history of precious-metal mineralization.

Poverty Creek Emerging

Recent work has advanced Poverty Creek into a high-priority target within a broader structurally controlled epithermal system.

Untested Drilling Opportunity

Little to no modern drilling in over 45 years providing the opportunity to test newly defined targets at depth.

Drill Targeting

Sampling, mapping and geophysics are being integrated to refine and prioritize Phase 1 drill locations.

RIO GRANDE RESOURCES

The Opportunity

- ✓ Historical high-grade district potential
- ✓ Emerging targets
- ✓ Modern exploration

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WKN: A40Z5N

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Advancing an Historical High-Grade District Into a Modern Discovery Opportunity

Winston Gold-Silver Project | New Mexico

Historical high-grade district | Emerging targets | Anticipated Phase 1 Drill Program

Contact

Jason Barnard, CEO & Director

604-767-6598 | jason.barnard@riogranderesources.ca

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