

Rio Grande Resources Announces Positive Assay Results From its Sampling and Field Campaign at the Winston Gold-Silver Project

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Key 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.

[Rio Grande Resources Ltd.](#) (CSE:RGR)(OTCPINK:RGRLF) ("Rio Grande" or "RIO" the "Company"), is pleased to announce the results from its geological mapping and sampling program conducted previously announced completed on April 07, 2025, at its 100%-owned Winston project in the Black Range of Sierra County, New Mexico. The program focused on the Paymaster Fault Corridor and identified several new mineralized veins (see figure 1 and Picture 1) and confirmed high-grade gold and silver mineralization across multiple vein systems and returning assays including highlights of 66.2 g/t gold and 830 g/t silver illustrated in Table 1, with full assay illustrated in Table 2. The field campaign conducted from March 24-28, 2025, collected 57 samples and provided the Company geological insights and increased understanding of the high-grade epithermal vein system. These results serve to reinforce the project's exploration potential and indicate that a large, multi-phase hydrothermal system is present.

Figure 1. Property Map with New Results Illustrated as Coloured Triangles.

Jason Barnard, President and CEO of Rio Grande Resources, commented: "These results underscore the high-grade potential of the Winston project, with gold values up to 66.2 g/t and silver up to 830 g/t. The discovery of new mineralized veins, combined with historic high-grade production from the Ivanhoe, Emporia, and Little Granite mines, reinforces our confidence in the district's potential. We are particularly encouraged by the copper-rich mineralization which adds another dimension to the project's value. These encouraging results continue to expand our knowledge base and further support the district-scale potential we are unlocking at the Winston Project. We look forward to continuing our exploration efforts on the property and increasing value for our shareholders."

Picture 1. Newly Discovered Vein Trend, North Zone

Table 1. Sampling Highlights*

Sample ID Au (g/t) Ag (g/t) Au-Eq* (g/t) Width (m) Mineralization Style

1844416	66.2	830	76.6	0.5	Rhyolite breccia
1844444	16.75	746	26.1	0.2	Comb quartz-amethyst
1844419	6.39	23	6.7	2.5	Quartz-rhyolite breccia
1844458	0.005	60.2	0.8	2.0	Cu-oxidized andesite (2.76% Cu)

*See full assay result in table 2 below

Technical Advancements

Building on April's preliminary findings, the latest assay results from the Winston Project reveal three critical advancements in our geological understanding of the system:

Structural Controls Confirmed: High-grade mineralization demonstrates a strong structural control, with the most significant gold and silver values concentrated at vein bends and intersections along the Paymaster Fault corridor. This is particularly evident where ginguro banding (black sulphide-rich layers) is present, a classic indicator of high-grade precious metal deposition in epithermal systems. This sampling phase's highest-grade sample (1844416: 66.2 g/t Au, 830 g/t Ag) occurred precisely at a 340° structural bend in the Paymaster Fault, confirming that these geometric complexities act as primary fluid conduits and metal traps (pic of sample below).

Picture 2. Sample 1844416 (66.2 g/t Au)

Depth Potential Indicated: Quartz textures observed in the field - including colloform banding and crustiform-cockade textures - along with increasing sulphide content in deeper exposures, strongly suggest the mineralized system remains open and potentially expands below historic workings. The highest-grade samples correlate with transitional textures between epithermal and mesothermal regimes, suggesting the valuable elements may represent the upper expressions of a more extensive system. This vertical zonation pattern, where gold values increase with depth until reaching an optimal "precious metal horizon," is characteristic of productive low-sulfidation districts worldwide.

Mineralization Styles: While epithermal quartz veins remain the primary host, the recent results demonstrate significant mineralization occurs in three additional geological domains:

1. Hydrothermal rhyolite breccias - Sample 1844416 (66.2 g/t Au) came from explosive rhyolite tuff breccia, showing that high-grade mineralization extends beyond simple quartz veins into the surrounding volcanic host rocks.
2. Andesite-hosted copper zones - The 2.76% Cu value in sample 1844458 demonstrates the presence of additional polymetallic targets. This mineralized andesite breccia runs parallel to the main Paymaster Fault Zone and may have familial relations to the prominent copper signature observed in conjunction with gold mineralization.
3. Banded chalcedonic quartz breccias - Layered comb, massive, and chalcedonic quartz veins are prominent along surface vein exposures. Higher precious metal grades are observed when clasts are rimmed in chalcedony and the matrix shows patches of platy replacement (boiling textures).

Table 2. Gold & Silver Assay Results (samples returning > 2.0 gpt Au-Equivalent)

Sample ID	Au (g/t)	Ag (g/t)	Description (Mineralization Style)	Location
1844416	66.20	830.0	Quartz breccia with explosive rhyolite tuff clasts, sulphide bands	Northern Trench Area
1844444	16.75	746.0	Coarse comb Amethyst + Qtz-Calcite breccia with oxides	Vein Bend (340°)
1844437	3.46	331.0	Banded Amethystine Vein with vitrophyre matrix	Paymaster Trend
1844419	6.39	23.0	2.5m chip channel - Qtz Rhyolite Breccia with 5% oxides	Pit Exposure
1844415	3.31	23.4	Quartz/Calcite Breccia phase (historic trench)	Northern Trench Area
1844442	4.48	442.0	Qtz vein with ginguro bands + orange oxides	Dozer Cut
1844430	3.36	187.0	0.4m layered Qtz+Cal vein with chalcedony	Paymaster Trend
1844420	4.38	82.8	Composite chip from 1m massive quartz vein	Pit Sampling

Sample ID	Au (g/t)	Ag (g/t)	Description (Mineralization Style)	Location
1844450	0.90	598.0	Andesite breccia with Cu oxides (chalco/covellite)	Historic Shaft
1844454	0.64	618.0	Qtz+Cal vein with dark sulphide bands	ROM Pile
1844428	0.87	45.1	1.4m calcite vein + stockwork	Stockwork Zone
1844441	1.49	165.0	Layered massive Qtz with red oxide patches	Trench 280°

1. Detection Limits: Au (<0.005 g/t), Ag (<0.05 g/t)
2. High-Grade Threshold: Samples >2.0 g/t Au or >100 g/t Ag highlighted
3. Au-Equivalent = Au (g/t) + [Ag (g/t) ÷ 80]

Picture 3. Various Samples

Dr. Michael Feinstein, Qualified Person, added "The field observations and assay results support our exploration model and provide additional control for drill targeting. At the Winston Project, significant tectonic activity and stretching along the Rio Grande Rift Corridor (RGRC) created a long-lived plumbing system for hydrothermal fluids.

With these encouraging results, additional trenching is recommended to define mineralized shoot geometries at surface. Our upcoming field work is focused on expanding geochemical footprints and approximating the relative vertical position in the exploration model along each vein trace."

Next Steps

Additional geological mapping and geophysical surveys are underway to refine drill targets that will further test the high-grade mineralization along the Paymaster Fault Corridor and other newly identified targets.

All samples were collected by Mineoro Explorations and securely maintained through to submission to the ALS Minerals laboratory in Tucson, an ISO-3000 certified laboratory. Samples were analyzed by Fire Assay and ICP-MS. Internal laboratory QA/QC protocols were followed and 5% external standards are submitted with all sample batches.

Qualified Person

Technical information in this news release has been reviewed and approved by Michael Feinstein, PhD, CPG, who is a Qualified Person as identified by Canadian National Instrument 43-101 Standards of Disclosure for Mineral Projects.

About Rio Grande Resources

Rio Grande Resources (CSE:RGR) is a burgeoning mineral exploration company focused on unlocking the high-grade gold and silver potential within its 3,000-acre drill-ready property in the Black Range of Sierra County, New Mexico. The company holds 100% interest in the Winston project group, which includes the 2 patented historic Ivanhoe & Emporia Claims, and Little Granite mines, all known for their past production of high-grade precious metals. Rio Grande Resources is led by a team of experienced professionals with expertise in mineral exploration and development, who are targeting large-scale precious metal discoveries within the property's well-documented low-sulfidation epithermal setting.

To view the company fact sheet and corporate presentation, please visit our website at

www.riogranderesources.ca.

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The CSE has neither approved nor disapproved the contents of this news release and accepts no responsibility for the adequacy or accuracy hereof.

SOURCE: Rio Grande Resources

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