

March 29, 1905

Yukon Territory, Supply Post near Bonanza Creek

To my dearest sister, Emily,

From your loving brother, James

I hope this letter finds you in good health and spirits. It has been months since I last wrote to you, and I am filled with excitement to share the latest developments from my surveying expedition. As you know, I have been hired by the Yukon Surveying Company to map the Bonanza Creek area, and I have been working tirelessly to complete the task.

Survey Techniques and Instruments

I have been using a combination of methods to gather data, including triangulation, levelling, and plane table surveys. My team and I have been using a theodolite to measure angles and distances, and we have been taking regular readings with a sextant to determine our position. I have also been using a transit level to ensure accurate levelling, and we have been creating detailed topographic maps of the area.

Geological Analysis

As I mentioned in my previous letter, we have made some remarkable discoveries in the geological composition of the area. The rocks in the Bonanza Creek area appear to be a mix of granite, schist, and gneiss, with significant deposits of quartz and pyrite. I have been analyzing the samples we have collected, and I believe I have identified a few promising areas that warrant further investigation.

Gold Deposits and Sampling Methods

We have been using a combination of panning, sluicing, and dredging to collect gold samples, and I am pleased to report that we have made some significant finds. The gold deposits in the area appear to be a combination of alluvial and placer deposits, with significant concentrations in the creek beds and surrounding hills. I have been using a combination of methods to analyze the samples, including fire assay and cyanidation, and I believe I have identified a few areas that show significant promise.

Technical Specifications

I have attached a few diagrams and measurements to this letter, which I hope will give you a better understanding of the technical aspects of our work. The diagrams show the survey grid we have established, as well as the geological map of the area. I have also included some measurements of the gold deposits, including the concentration of gold in the samples we have collected.

Data-Driven Findings

As you can see from the data I have included, the gold deposits in the area appear to be significant, and I believe we have made some remarkable discoveries. The gold concentrations in the samples we have collected are significantly higher than what we have seen in other areas, and I believe we have identified a few areas that warrant further investigation.

Conclusion

I hope this letter has given you a better understanding of the technical aspects of our work, and I am excited to share the latest developments with you. I will continue to keep you updated on our progress, and I look forward to hearing from you soon.

Yours truly,

James

Geographic Coordinates:

- Latitude: 60.35° N
- Longitude: 135.15° W

Technical Specifications:

- Survey grid: 100m x 100m
- Geological map: 1:10,000 scale
- Gold concentrations: 20-30 g/t
- Sample collection methods: panning, sluicing, dredging

Attached Documents:

- Diagram of survey grid
- Geological map of Bonanza Creek area
- Measurements of gold deposits
- Data on gold concentrations in samples

Note: The letter is written in a formal tone, reflecting the