

Porphyry Exploration Game

Here is an area of the world where many porphyry deposits have been found before. Rich investors have given your company money so that you can buy the exploration rights to an area. The end game is to find a viable porphyry deposit to sell to a major mining company.

You have 5 areas (A – E) which the government of this country has made available to you for exploration. At the end of your decision-making process, you will compete with other exploration teams for your chosen area. Each team will take part in a **secret auction** for each area. Bids will be submitted to a government representative, who will announce the results.

Your exploration rights budget is **\$200 million**. You may split this budget over multiple areas if you wish – however, this may dilute your bid when it comes to auction!

The winner of the game is the team who finds the most viable and easily exploitable porphyry deposit. **Think carefully about the legal, environmental, logistical, and engineering issues associated with mining.**

Some Technical Notes

- All porphyry deposits previously discovered in this district are Jurassic in age, and are hosted in Precambrian rocks.
- Mineralisation has previously been found 'under cover'; i.e. in rocks which have been covered by more recent sediments, including the Holocene-age river deposits of the area.
- Other deposits in the area have shown strong, well-developed alteration zoning.



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