

Celts

Silicon analogous low-sulphidation steam cap
hidden in the Walker Lane



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Project Summary

- Untested cell of advanced argillic alteration centered on a rhyolite dome
- Alteration indicative of steam-heating, implying a boiling zone and possible gold-silver mineralization at depth
- Steam cap remains untested perhaps due to being mistaken as a barren extension of the peripheral high-sulphidation Goldfield district
- Peripheral gold occurrences define a four-square kilometre exploration play
- Analogous to AngloGold Ashanti's recent Silicon discovery- 4.2 million ounces of gold in current global resource¹



**Photo of advanced argillic alteration in the rhyolite dome at Celts.
Photo looking towards the northeast.**

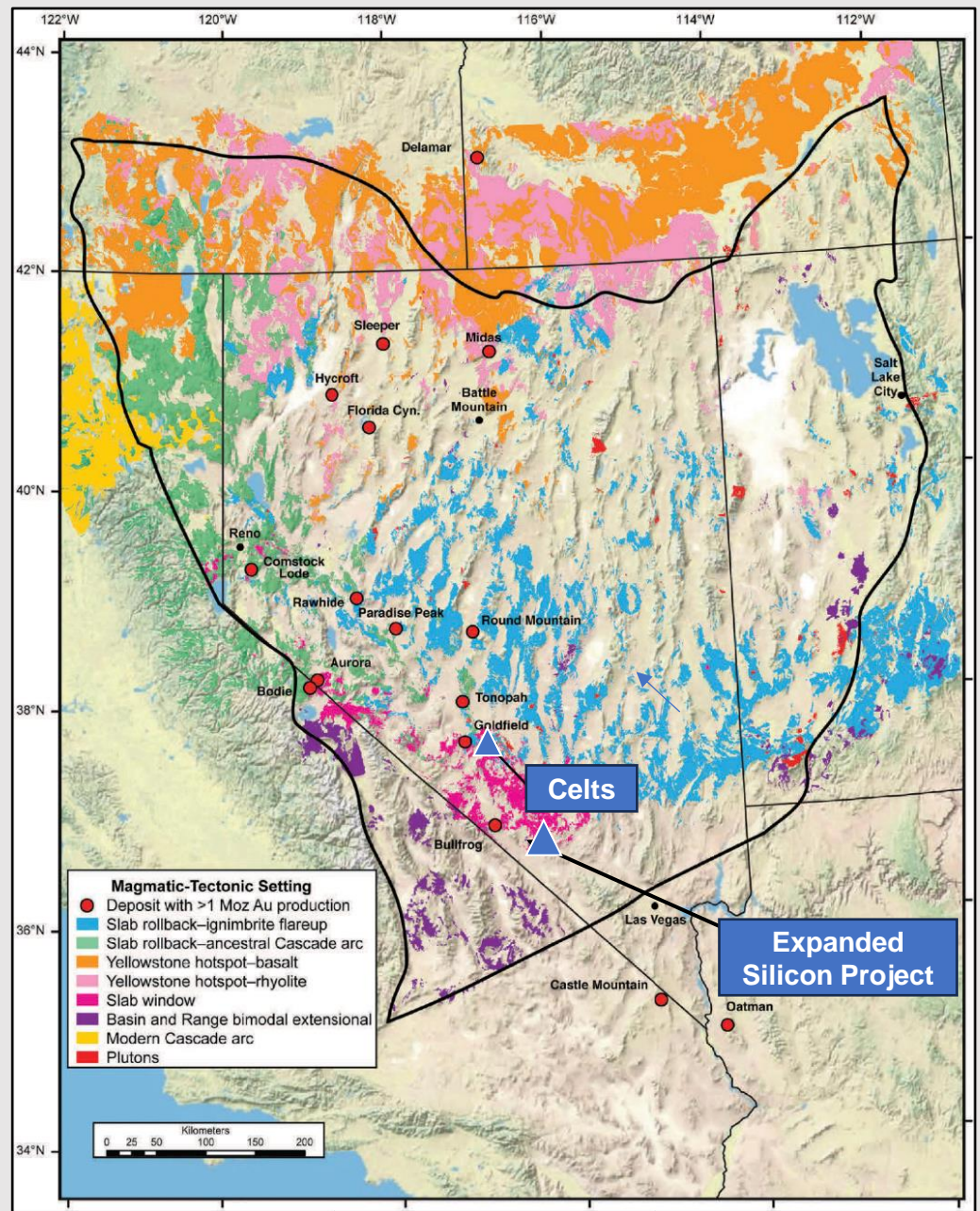
Location

- Project is thirteen kilometres northeast of Goldfield, Nevada (Historic Production of 4.2 Moz Gold and 1.5 Moz Silver)
- One hundred kilometres northwest of the Silicon discovery
- Sixty-seven claims located on BLM ground covering 5.6 km² (560 Ha)
- Easily accessible on dirt roads from Highway 95



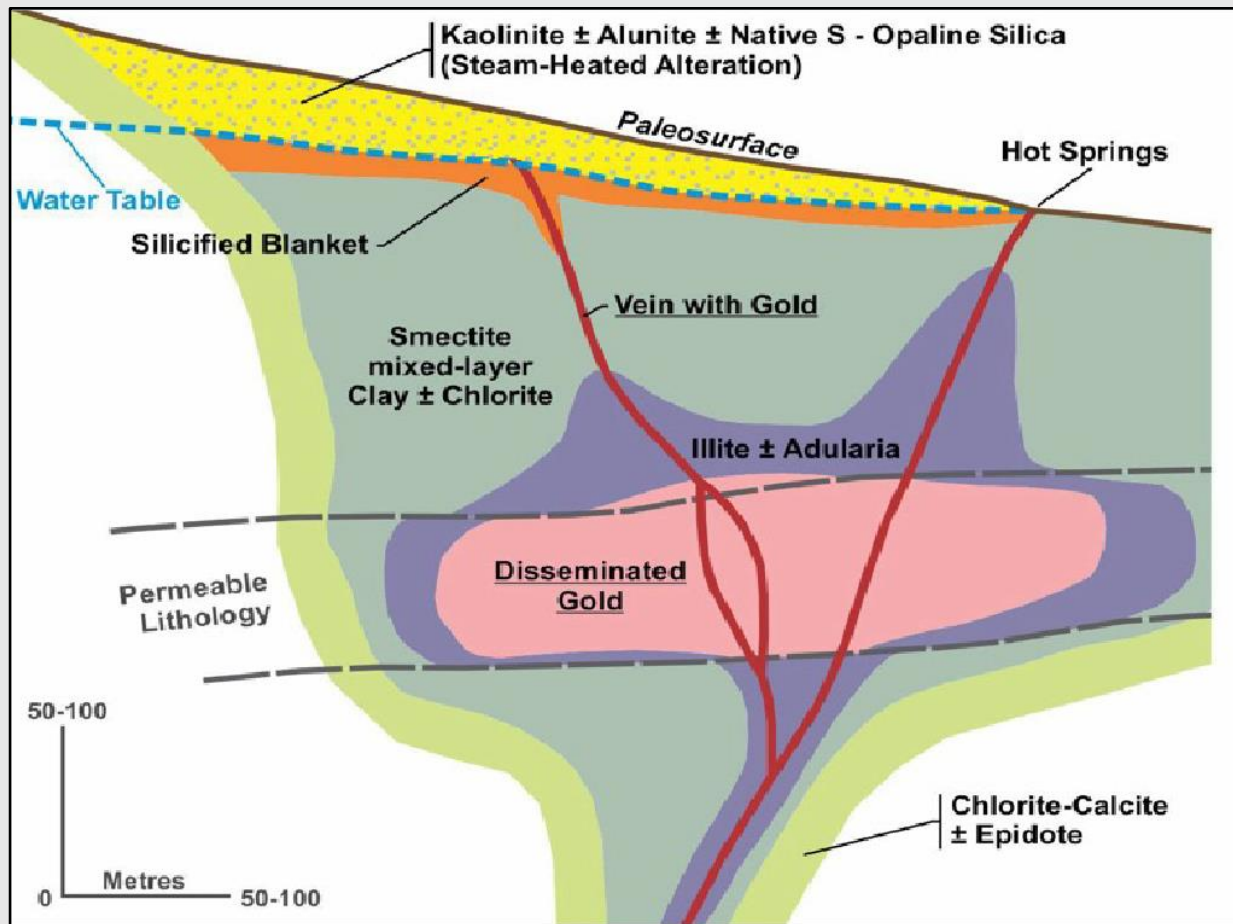
Regional Geology

- Located in the Walker Lane trend, a 100 kilometre wide northwest oriented structural corridor containing many Tertiary epithermal gold deposits
- Multiple historical and operating low and high sulphidation epithermal gold mines
- Deposits are related to extensive Cenozoic magmatism
- Low-sulfidation systems linked to slab rollback, the ancestral Cascade arc, and slab window magmatism
- Celts one of few epithermal systems in the Walker lane associated with slab window magmatism like Silicon and Merlin.



Exploration Methodology

- Advanced argillic alteration forms in multiple environments, some prospective for gold and some not
- Orogen has spent the last ten years working on strategies to rapidly distinguish environment of formation based on alteration mineral assemblage, texture, morphology and associated geochemistry

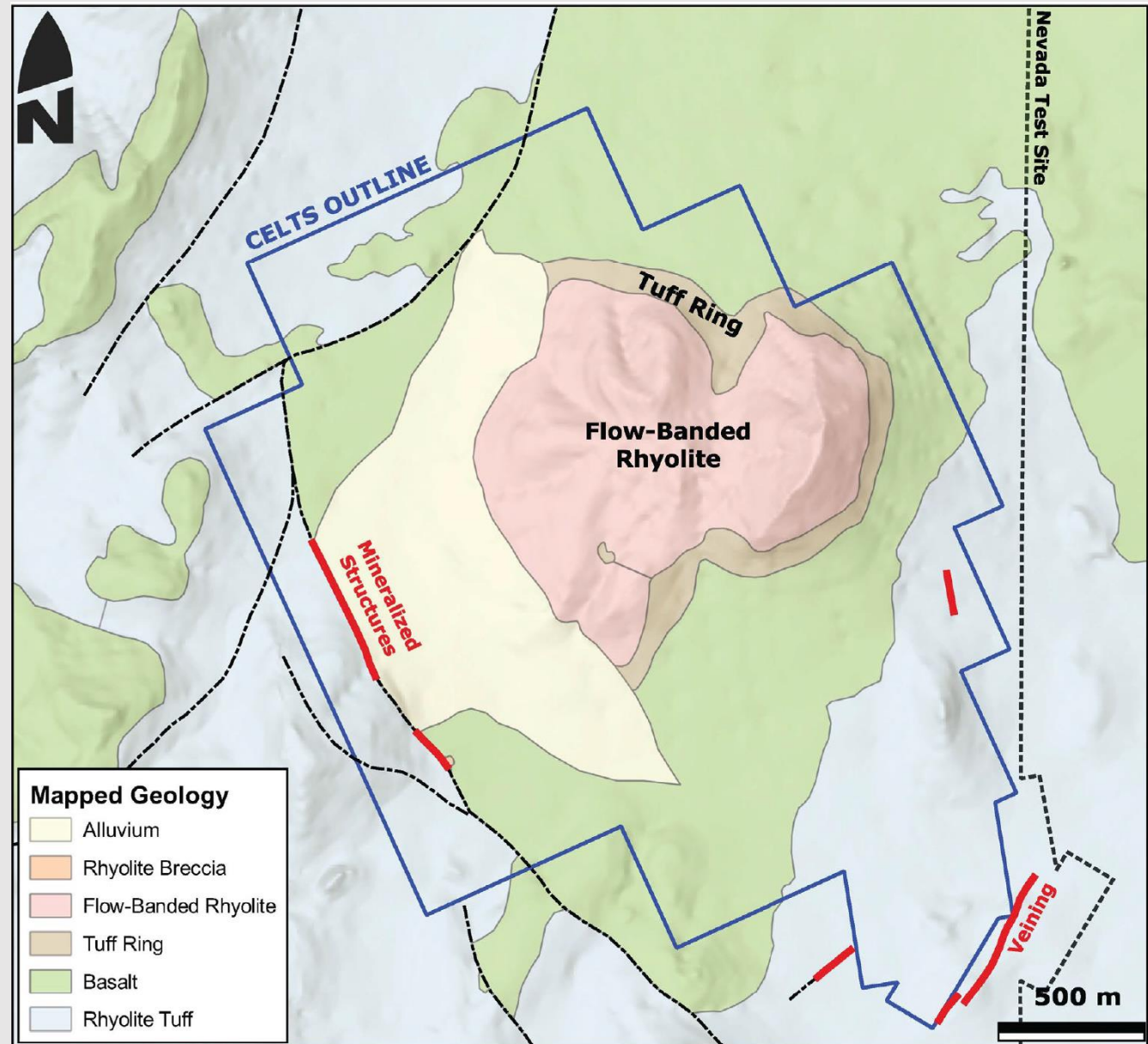


- Advanced argillic alteration produced by steam heating vectors towards boiling zones and possible low-sulfidation mineralization at depth

- Steam Heated Alteration typically 0 to 10 ppb gold
- Chalcedonic Blanket typically 10 to 100 ppb gold
- High-Grade Veins typically >10 ppm gold
- Illite-Adularia Halo typically 0-1 ppm gold
- Disseminated Ore Zone typically 1-5 ppm gold

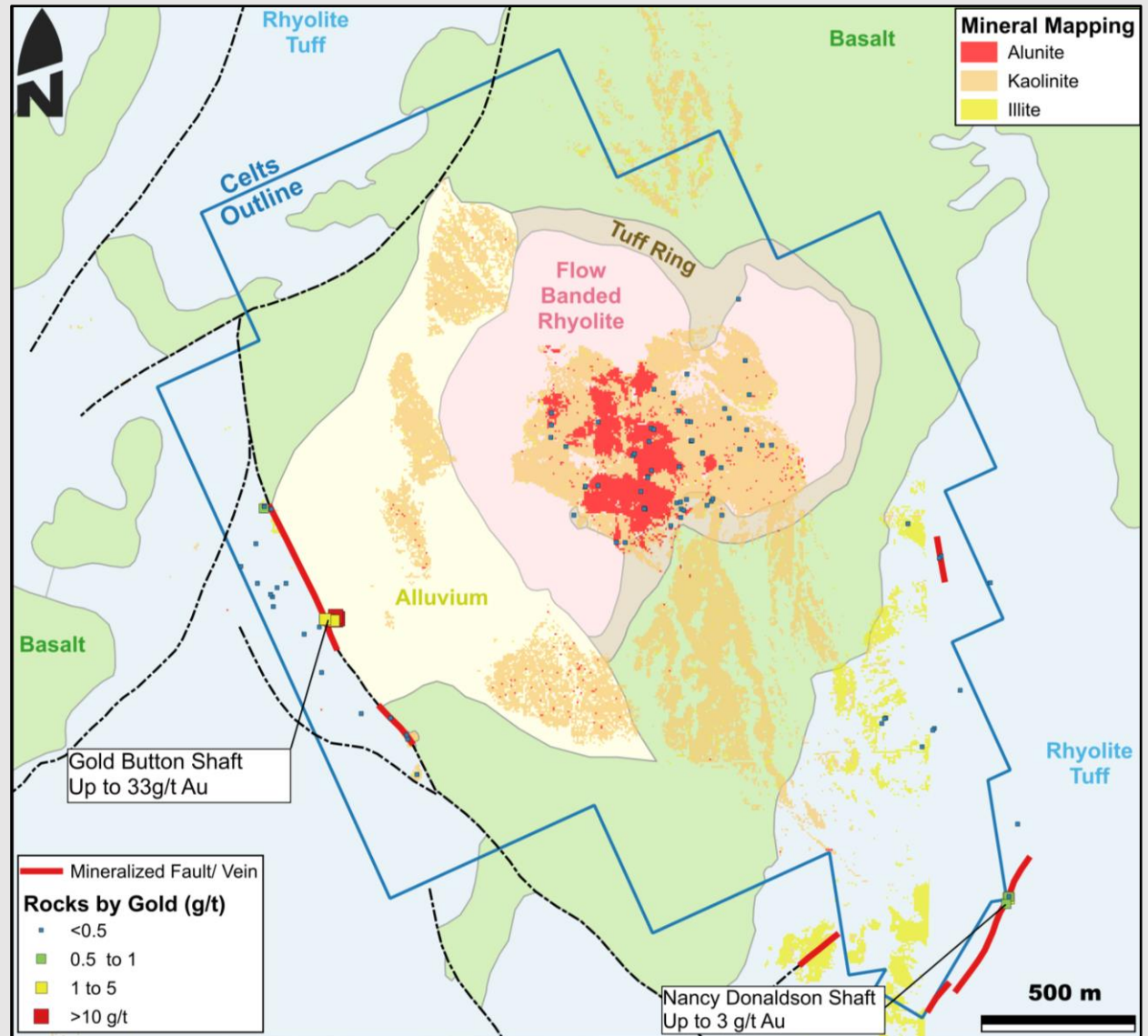
Celts Geologic Overview

- A central, Tertiary rhyolite dome intrudes older basalts and rhyolites
- Shallow level of erosion confirmed by presence of marginal tuff ring
- Low sulfidation-style quartz vein textures with multi-gram gold values are peripheral to the alteration cell



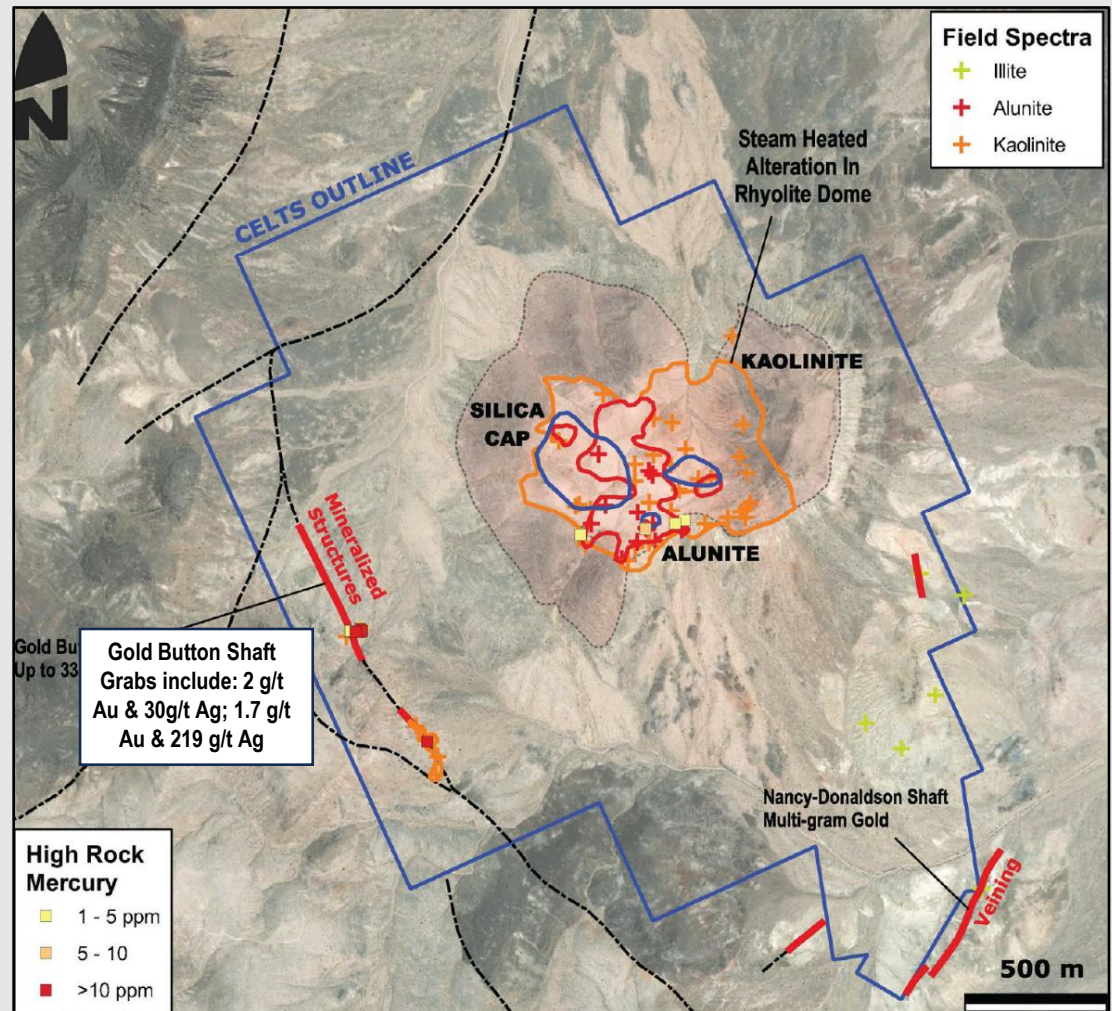
Celts Alteration

- Hymap Mineral Classification mapping identifies 800 metre diameter alunite and kaolinite cell developed on rhyolite dome
- Alluvial cones of kaolinite occur below the central rhyolite dome complex
- Peripheral illite associated with gold occurrences limited to felsic tuffs underlying central basalts
- Potential gold-bearing illitic alteration may continue beneath the basalt and transcend into adularia beneath the central vent complex



Celts Alteration

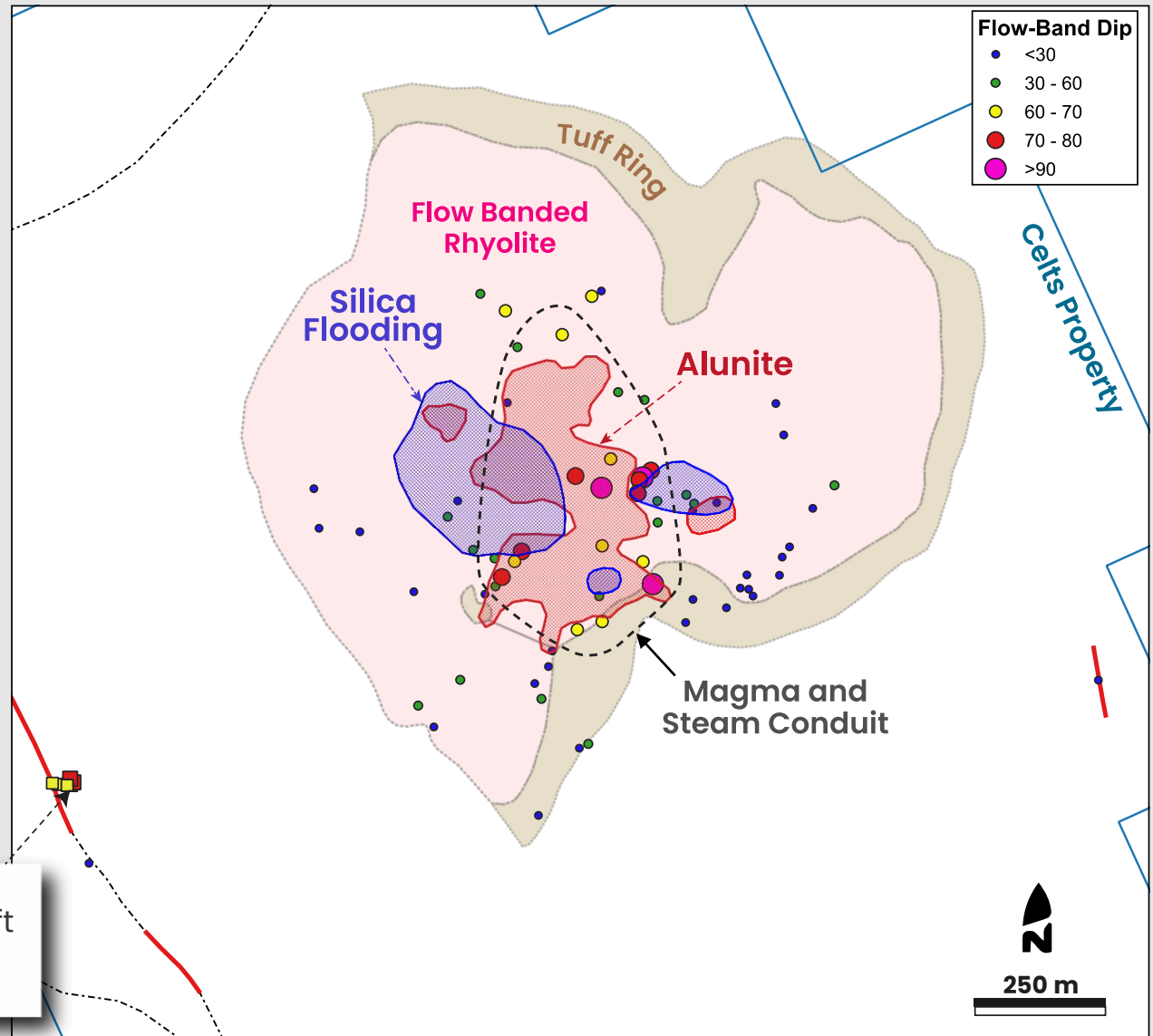
- Corroborated by field infrared spectra and constitutes a potential steam-heated alteration
- Zones of fine-grained silica flooding
- Alunite is fine-grained end-member potassium-alunite, and is associated with fine-grained kaolinite and opaline to chalcedonic silica
- Alteration intensity within the dome vectors toward the south



Celts Alteration

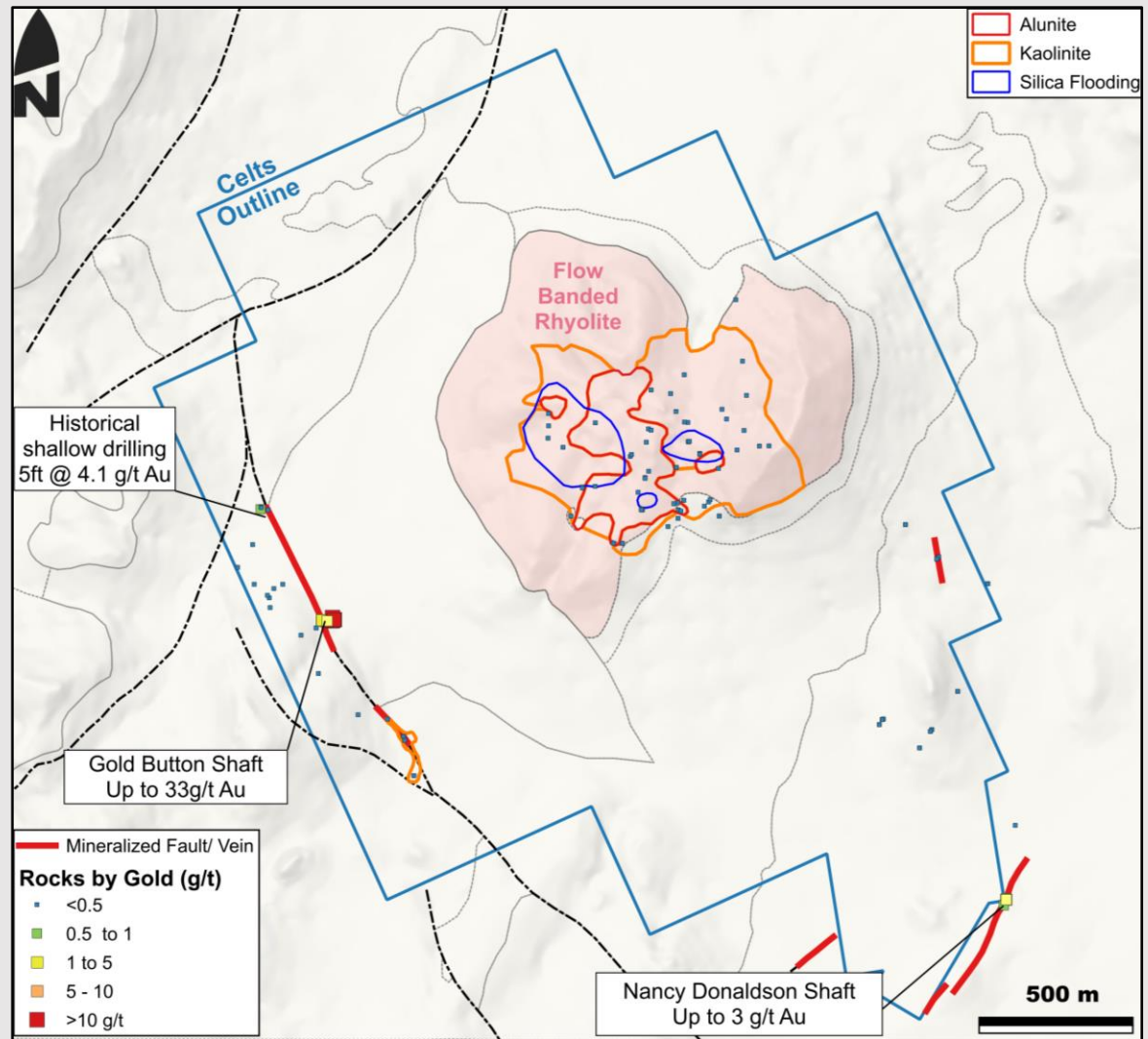
- Flow-banding in the rhyolite dome steepens towards a central north-south corridor
- Likely the magmatic vent during dome formation
- Correlate with strongest alunite indicating this corridor was a conduit for steam release from boiling fluids
- Principal structural target for drilling
- Together, the central steam cap and peripheral gold-bearing mineralized structures define four square-kilometre district-scale play

Gold Button Shaft
up to 33g/t Aug



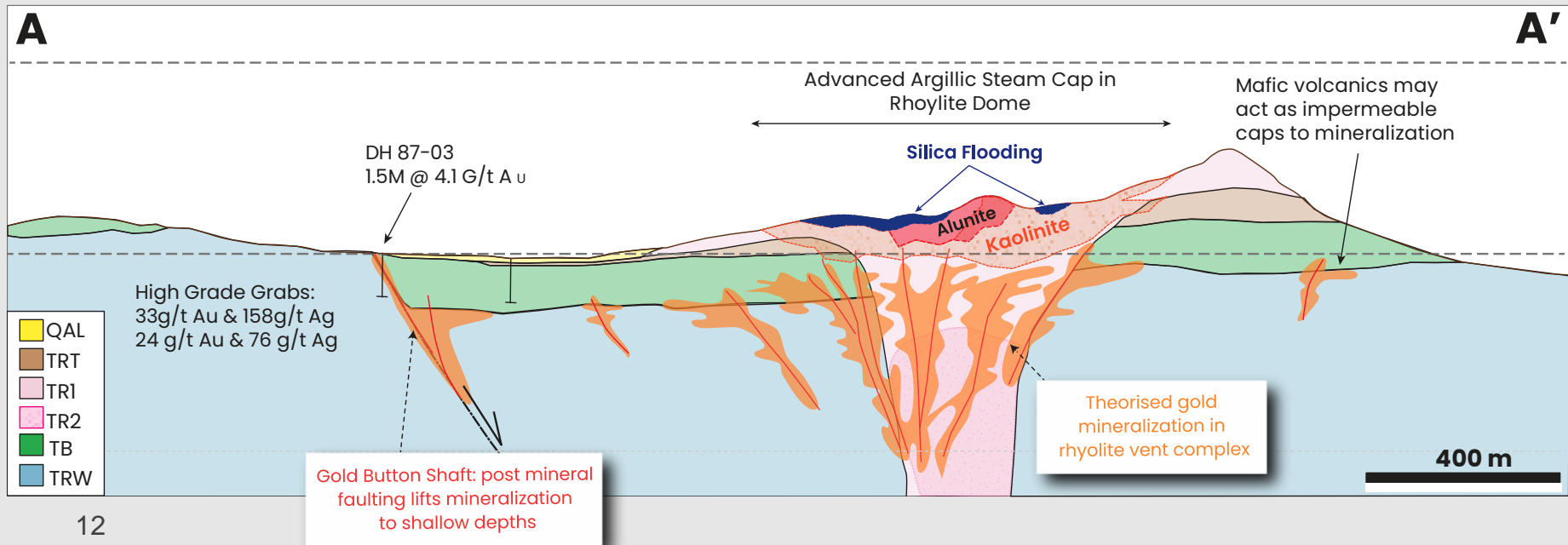
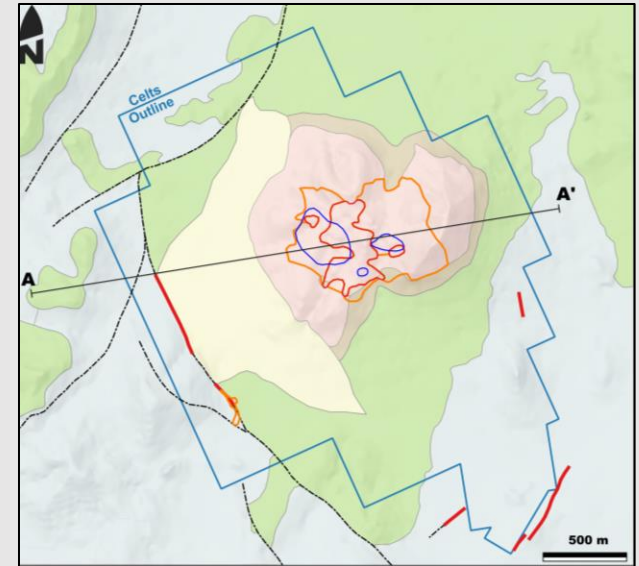
Celts Geochemistry - Gold

- Anomalous gold in peripheral veins at low elevation (up to 33 g/t gold) confirms presence of metal-bearing hydrothermal system at depth
- Gold-bearing zones are associated with clay assemblages which are indicative of uppermost levels of boiling in a hydrothermal system
- Historic drilling at the Gold Button shaft returned 4.1 ppm gold over 5 feet in shallow drill-hole northwest of the shaft



Target Concept

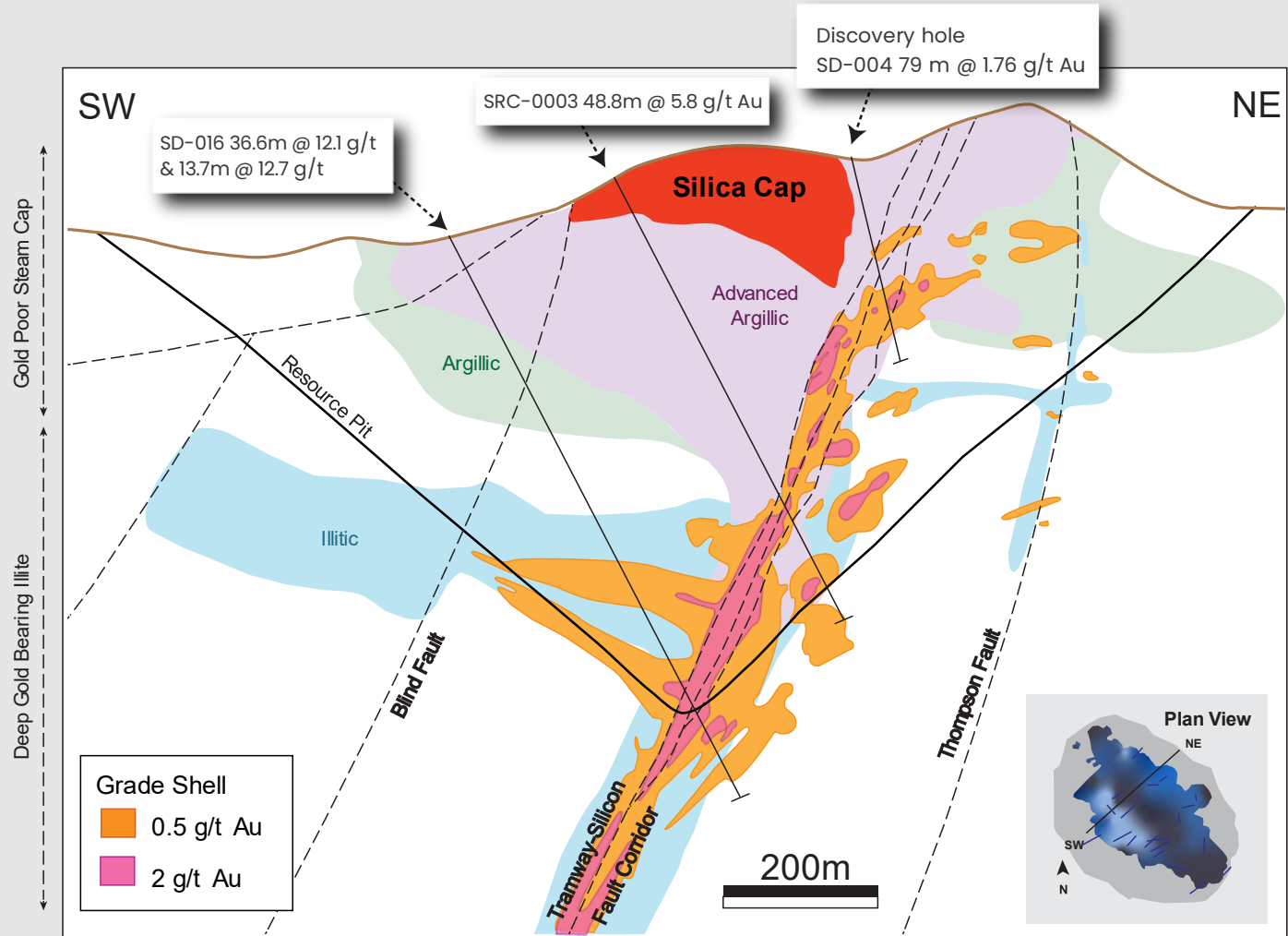
- Low sulphidation-style gold mineralization beneath the steam-heated rhyolite dome
- Model supported by peripheral gold occurrences at surface
- Orogen envisions upward-flaring gold zones at depth beneath the advanced argillic alteration, similar to those observed in many classical dome-hosted epithermal deposits
- Mafic volcanics may act as impermeable cap to mineralizing fluids



Silicon Analog

Celts shares multiple similarities with AngloGold Ashanti's recent Silicon discovery (Global resource of 4.2 million ounces of oxide gold¹)

1. A strongly developed, gold-poor steam heated alteration cell that may overlie a boiling zone
2. Anomalous mercury
3. Possible association with slab window magmatism



Opportunity

- Untested advanced argillic alteration cell on BLM land with possible low sulphidation epithermal mineralization at depth
- Peripheral multi-gram gold with classic low sulphidation vein textures
- Attractive location immediately next door to the high-grade, historic Goldfield district
- Clear and unencumbered pathway forward from fieldwork to geophysical surveys to drill testing
- Analog to AngloGold Ashanti's recent discovery at Silicon: Inferred resource of 4.2 millions ounces of oxide gold
- Generated by the same technical team that identified Silicon





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