

## THERMO HOT SPRINGS: GEOTHERMAL EARLY STAGE ASSET

- ✔ 706 hectares - SW Utah
- ✔ extensive geothermal exploration in 1980's including 2,221m deep well
- ✔ adjacent to 10 - 20 MW Raser geothermal plant
- ✔ 20 MW Estimated Resource

Thermo Hot Springs is located in Utah approximately 50 km SSW of the Roosevelt Hot Springs. An existing transmission line runs in close proximity to the southern boundary of the leasehold position, which is currently being partially used by Raser Technologies, Inc. ("RTI") to send power to the city of Anaheim, CA.

The two Thermo hot spring deposits are oriented NNE. Each deposit is approximately 1 km long, 50 - 200 m wide and 4 - 8 m high. The mounds are made up of mostly windblown sand, travertine debris and siliceous sinter. Regional gravity data suggest that a subsurface fault with several hundred feet of displacement (down to the west) passes through the hot springs area.

Geothermometry estimates prepared by several different authors suggest reservoir equilibrium temperatures of 140 and 200°C. Republic Geothermal, drilled a 2,221m deep exploration hole, approximately 1.6 km WSW of the hot springs mounds. The hole passed through 350m of alluvium, 610 m of Miocene volcanic rocks, 540 m of sedimentary and metamorphic rocks and bottomed in granite.

There are records of at least 21 temperature gradient holes drilled in the immediate area of the Thermo Hot Springs. The known thermal anomaly lies within the area of the Thermo Hot Springs Property. Temperature gradients from wells in the immediate area range from 11 to 178°C per km with an average temperature of 42°C per km.

Alterra Power is evaluating all data and available databases located at the Great Basin Center for Geothermal Energy, the Utah Geological Survey, the University of Utah, Southern Methodist University, and various private and academic sources.

