



## ASX Announcement

18 March 2013

### Further Geothermal Exploration Authorisation Granted to Hot Rock in Peru

Hot Rock Limited (**HRL**) is pleased to advise that it has been granted a further geothermal exploration authorisation in Southern Peru in the Huisco area. This brings HRL's granted authorisations in Peru to a total of six.

The Huisco prospect is located at the northern end of the active volcanic belt in Southern Peru. From reconnaissance level field studies carried out to date, the evidence is that the Huisco prospect is a medium to high temperature, fracture controlled, hot water geothermal system.

Now that the authorisation has been granted, HRL will commence community information programs and discussions with local land owners to obtain land access. An application has already been submitted to the Peru DGAAE for environmental clearance to allow HRL to commence detailed geoscientific surveys. Once these requirements have been satisfied HRL will commence geoscientific surveys at Huisco in the upcoming field season which will run from early May through to end November 2013.

The granting of the Huisco tenement is a further significant step forward for HRL in developing its portfolio of high quality geothermal tenements in Peru, with a further three high quality volcanic systems still in application, awaiting grant.

HRL is currently seeking partner(s) to help explore and develop Huisco and our other granted projects.

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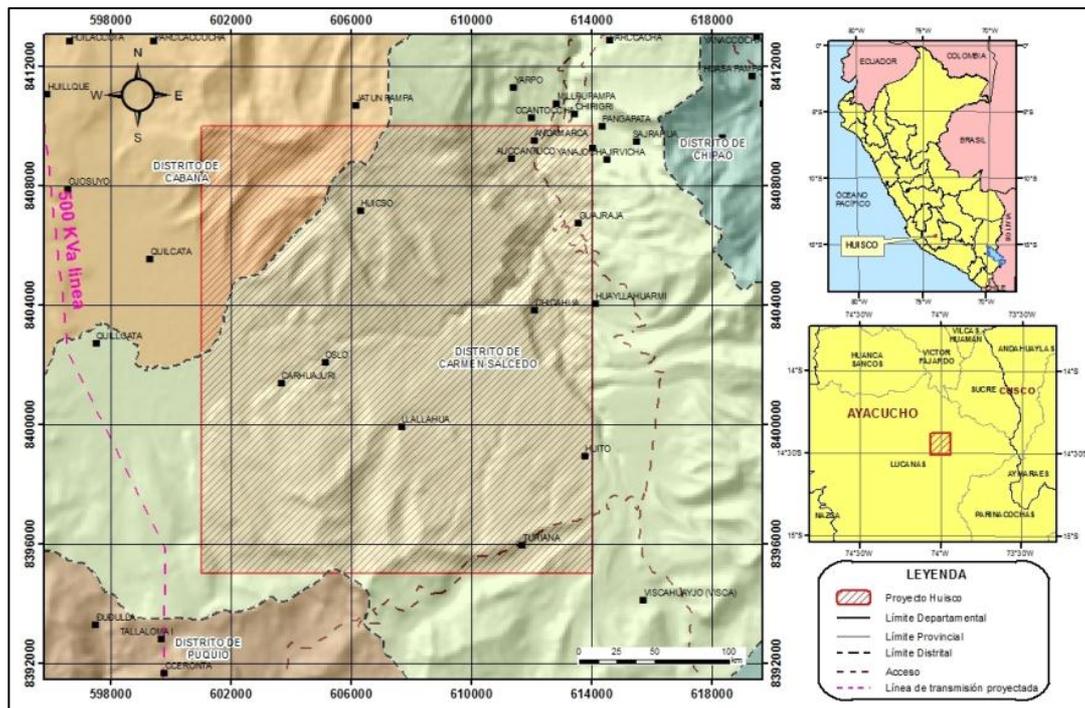


**Figure 1:** Location of HRL’s geothermal projects in South America showing the location of the newly granted Huisco exploration authorisation in Southern Peru

### About the Huisco Geothermal Project

The **Huisco** geothermal exploration authorisation is located 25 km northwest of Puquio province, in the Ayacucho Region of Southern Peru (Figures 1 and 2). It covers an area of 19,500 ha with the terrain varying in elevation from 2500 to 5000m above sea level.

Geologically, the tenement is associated with the partially eroded Huisco volcanic complex located in the western Cordillera of southern Peru at the northern end of the Central Volcanic Zone - a belt of present day volcanic activity that extends through Southern Peru into Northern Chile, which hosts numerous geothermal systems.



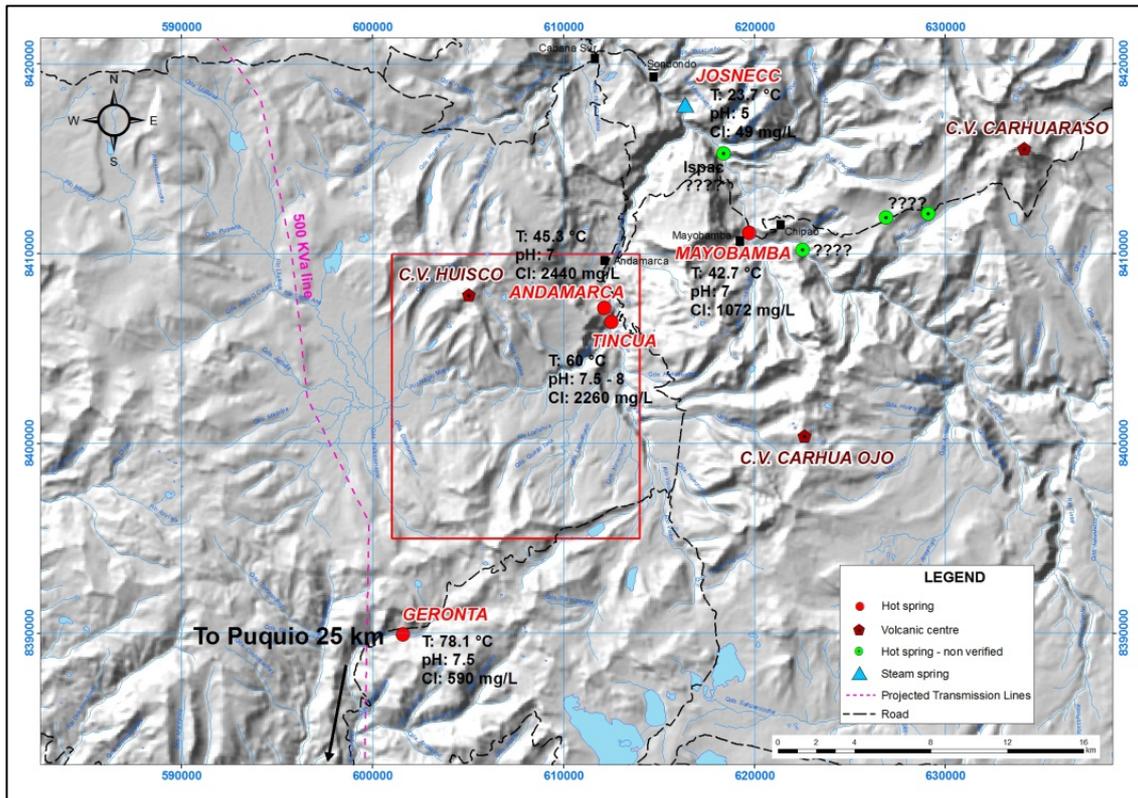
**Figure 2:** Location of Huisco geothermal exploration authorization

Reconnaissance work conducted by HRL to date at Huisco has identified five zones of surface thermal activity; at Geronta, Tincua, Josnec, Andamarca and Mayobamba (see Figure 3). There are local reports of further thermal features in the area. Surface temperatures of spring waters at the five surveyed features range from 25° to 80°C. The Geronta and Mayobamba springs, which are peripheral to the Huisco authorisation, have a large area of travertine terraces, a form of limestone deposited by hot mineral springs (Figure 4).

Chemically the sampled spring waters range from neutral pH, sodium chloride to mixed bicarbonate waters. These are typical surface expressions of an underlying geothermal reservoir. Chemical geothermometry estimates of subsurface minimum temperatures, derived from spring analysis range from 200° to 220°C.

These early resource results are very encouraging and suggest the presence of a benign medium to high temperature hot water geothermal reservoir in the vicinity of the Huisco volcanic center.

The project area is currently serviced with a 66 kVA local transmission system which runs within 1 km of the eastern boundary of the project. The government's future transmission program in this area of Peru includes construction of a 500kVA transmission line that is to be routed immediately to the west of the Huisco project.



**Figure 3:** Map of the Huisco exploration authorization showing the locations of major springs. Red dots represent springs that have been sampled by HRL. Green dots represent reported springs that are yet to be visited and sampled



**Figure 4:** Panoramic view of the Mayobamba travertine terraces on the edge of the Huisco geothermal system