

600m

Vacuum-Insulated-Tubing Low Temperature Geothermal Well Design Options

Southern Cross Energy was recently engaged to think outside the box and design a bespoke solution for a 5,000m low-temperature geothermal well.

Due to the low temperature nature of the well, various solutions were utilized such as the use of a dual string Vacuum-Insulated-Tubing (VIT) completion.

This completion was chosen in order to minimize the thermal losses during circulation from TD to surface and was incorporated into a closed loop binary cycle system.

The final design report was used in the project application phase and was

subsequently operationalized in 2019.

Lower Section of Casing	
Casing Size	5"
Casing Type	P110 - 17 lb/ft
VIT = 5" out	ter + 3-1/2" Inner
Setting Depth	connect to slotted
Section Length	4350m

Through our established network of suppliers in Mainland China, we were able to provide a cost effective yet high quality outcome for our client.



