

Germany

Single GeoESP® Offers Wider Operating Range, Energy Savings for Half the Cost

Set into liner and installed without cable damage, wells are now being monitored 24/7/365

CHALLENGE

- Tight well clearances and multiple ESP short runs primarily related to electrical failure
- Two different ESP downhole equipment systems

SOLUTION

- Our team redesigned the application to cover the two wells with one GeoESP
- Custom-designed eccentric centralizers protect cabling and MLE when running into the liner; upgraded Avenger® MLE
- Critical well procedures followed to ensure flawless installation

RESULTS

- Lower cost, wider operating range save energy costs during the summer season
- Better placement of GeoESP in liner to mitigate electrical failures

Overview

A German geothermal operator with two wells operated by two different electric submersible pumps (ESP) had multiple short runs due to electrical failures either with the cable, motor lead extension (MLE), or the motor. With minimal customer support from the incumbent supplier, they turned to Summit ESP® - A Halliburton Service for a solution.

Challenge

When evaluating the customer's equipment, it was determined that poorly designed centralizers had not protected the cables or MLEs when the ESPs were set in the liner, which had tight clearances.

Solution

The team began redesigning the application with one GeoESP, which had a wider operating range and could cover both wells at half the cost for the customer.

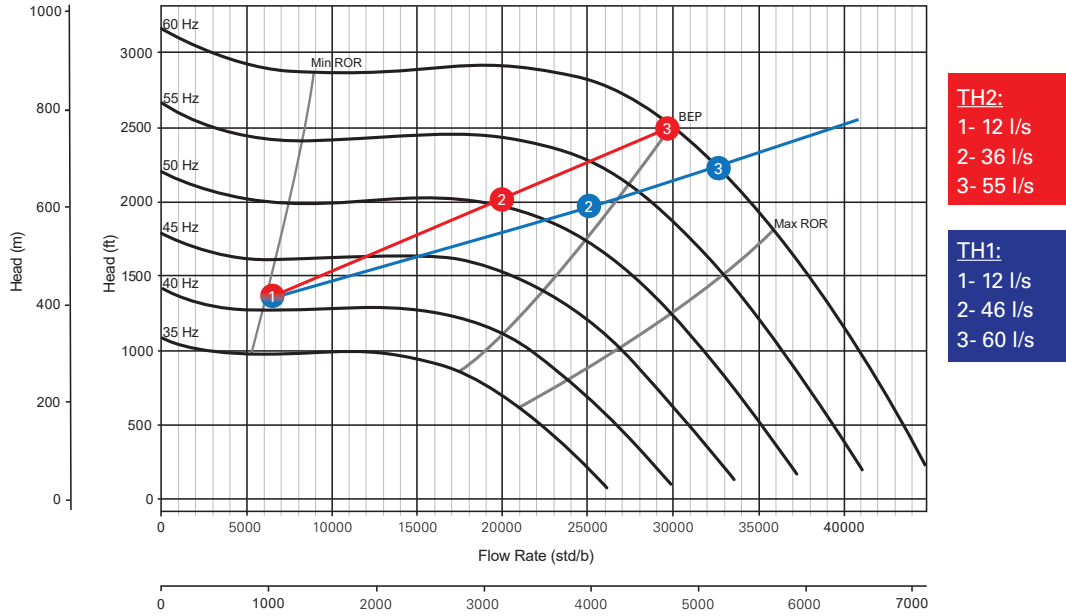
It would also allow for lower flow rates during the summer season, saving energy costs where there is a reduction in heat demand. Custom-designed eccentric centralizers protected the ESP cabling from damage when running into the liner.



CASE STUDY

Results

The complete installation of the ESP downhole equipment occurred without damage. Further, the operator could expect better ESP performance as the GeoESP® was landed at a better setting depth within the liner. With the single, broad-range GeoESP solution, the operator also saved the cost of a second unit.



GeoESP pump curve with wider operating range.

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