

## United Downs Geothermal Power Project June 2021 Update

### June & July at the Geothermal Project

GEL has successfully recruited a Junior Drilling Assistant as part of the Build Back Better Kick Start scheme. Kieran will work with us for the next 6 months gaining valuable experience for his future career.

We have finally got to the last stage of the testing phase. We will be bringing the hot geothermal water to the surface, letting it cool and then pumping it back underground. Because the geothermal fluid will be deposited in the water storage pond, there will be steam visible as the water cools. This is a good sign and proves the concept we have been working towards

### Equipment

Equipment will start to arrive at the United Downs site from Friday 18<sup>th</sup> June. A drilling rig will be delivered in sections over several days, before being built and tested.

The rig will not be used for drilling, it will be used to insert the Electrical Submersible Pump (ESP) into the Production (deeper) Well. This is a temporary pump that will only be used for the 7 days of testing.

The testing will only last 7 days and will be continuous day and night. As with all the operations at the GEL site, noise levels must not exceed the regulated levels. The vehicle route to bring the equipment to site will be the same as before.

When the powerplant is operational there will not be any steam visible as the geothermal fluid will be kept under pressure in a closed loop.

### Flow Test

The flow test will allow GEL to record the amount of geothermal fluid that can be brought to the surface via the Production Well. This is due to start around 27<sup>th</sup>/28<sup>th</sup> June. The results of this test will be used to design the powerplant.

### Steam

Because we will not be producing electricity during this test, the geothermal fluid needs to cool before being deposited back under ground. The circa 180°C water is under pressure, but when it gets to the surface, steam will be produced as the fluid cools to just below boiling point. Special equipment will be used to minimise the amount of steam produced.

If you have any queries, contact us by phone on 01326 331920 or email [contact@geothermalengineering.co.uk](mailto:contact@geothermalengineering.co.uk) Follow us on social media for daily updates.