

## Who Is Cornish Lithium?

An innovative mineral exploration and development company with over 40 locally based employees, focused on the environmentally-sustainable extraction of lithium in Cornwall

## What Are You Drilling For?

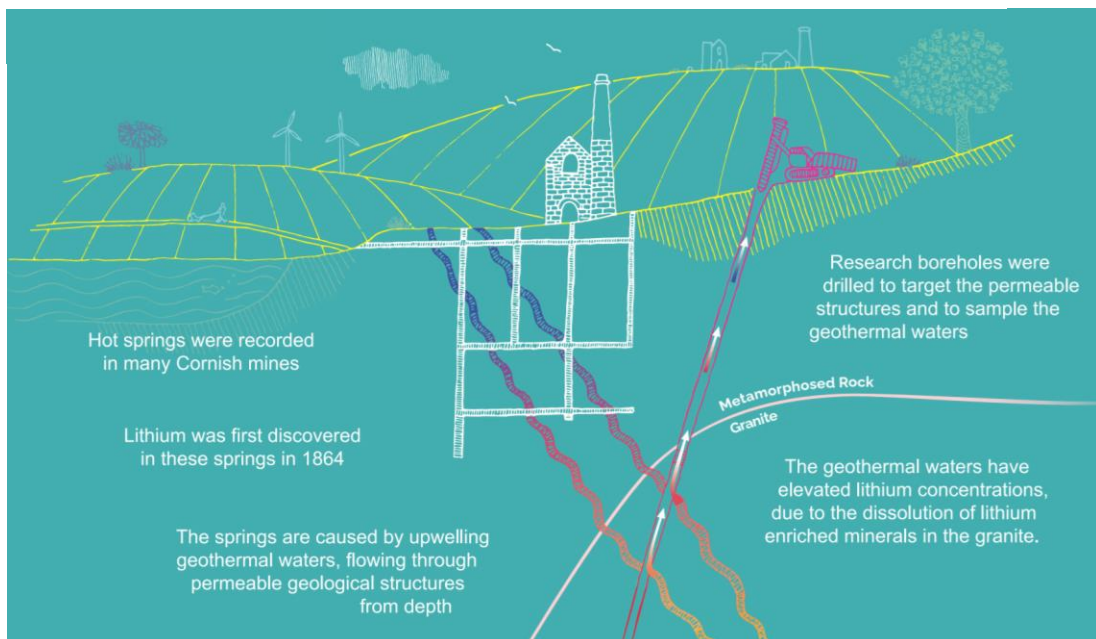
- Lithium which is dissolved in geothermal waters. These waters circulate in naturally permeable structures in the rock, which we can sample with exploration boreholes
- Lithium is used to create batteries for use in electric vehicles and renewable energy storage
- At present there is no domestic supply of lithium for the UK car industry. This metal is essential as the UK aims for all new vehicles to be electric by 2030, in order to reduce our carbon emissions

## How Long Are You Drilling For?

- We commenced drilling the geothermal waters research borehole in early March 2022
- The programme is expected to last for four and a half months and we are planning to drill between 7:00am and 7:00 pm, 7 days per week
- Some sampling activities may take place between 7:00pm and 11:00pm, but no drilling will occur after 7:00pm

## Why Twelveheads?

- We have created a 3D digital geological model to help us identify areas with potential for extracting lithium from geothermal waters. We can then drill research boreholes to test these areas
- In 2019 we drilled two successful research boreholes at United Downs, which confirmed that the geothermal waters are significantly enriched in lithium from depths as shallow as 600 m (2,000 ft)
- To further our exploration programme, we are drilling an additional research borehole around Twelveheads that is expected to be approximately 1,600 m (5,250 ft) deep
- From this research borehole, we expect to recover rock core, which will be used to identify the location of naturally permeable structures in the rock that geothermal water is flowing through
- A borehole pump will be used to obtain water samples from these naturally permeable structures, which will be analysed for their lithium concentration



*A cross-section through the drilling site, showing how we plan to sample geothermal waters.*

## How Will This Affect Me?

The borehole is being drilled by Priority Drilling Company Ltd., who drilled our previous boreholes and several similar boreholes across Cornwall.

The works have been permitted by Cornwall Council, who set strict environmental standards in a temporary planning order that Cornish Lithium will adhere to including:

### Noise

- Maximum noise limits set based on background noise surveys
- We will take extra measures to minimise noise, especially at night and weekends

### Traffic

- A traffic management plan for when the drill rig arrives and leaves the drilling site to avoid disruption to local traffic, this will be communicated to the local community well in advance
- Vehicles will take routes that avoid the village of Twelveheads, to prevent traffic in the village
- We will avoid moving any equipment during commuting hours or at night

### Light

- The drill site has been specifically selected for its location away from residential properties and woodlands
- We will seek to minimise light pollution to nearby dwellings and habitats

### Dust

- The drilling method uses water to minimise the production of dust

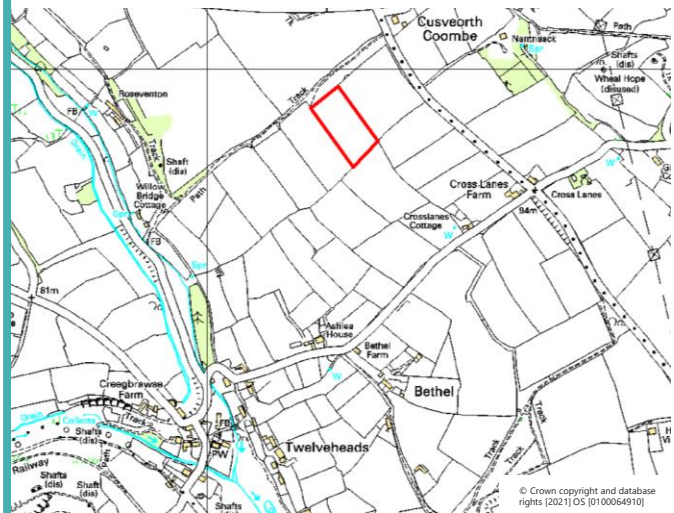
### Surface Impact

- The borehole will be drilled using a small mineral exploration rig (see photo from our 2019 drill site)
- The 12 cm diameter drillhole leaves a minimal surface impact and will be safely capped after use

### Permissions

- Prior to drilling, agreements were obtained from the relevant land and mineral owners

## Where in Twelveheads?



We will be drilling at a sites near Twelveheads, around the Cross Lanes Farm area.



*A photo of our 2019 United Downs Drilling Site*

## Contact Us

If you would like more information or have any concerns, please contact our drilling team using the contact details below:

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