# What does underground drilling look like?

**Conventional Oil & Gas Drilling**

**Shale Oil & Gas Drilling**

**Deep Geothermal from a hot aquifer for direct use**

Proposed 300m threshold

UK's deepest coal mine at 800m

Depth in miles

0

0.5

1.0

1.5

One vertical well drills down to an oil or gas reservoir deep below the surface

Shale rock

One vertical well and horizontal extensions, possibly hydraulically fractured to release oil or gas trapped in a layer of shale rock

Sandstone/ limestone rock

One well draws hot water from a deep aquifer and a second well returns the water

Domestic gas and electricity pipes at 1m

Deepest London Underground station platforms at 32m

Channel Tunnel at 75m

Depth in metres

0

10

20

30

40

50

60

70

80

Big Ben (96m) would need to be stacked around 25 times to reach the depth of the horizontal extensions