DRILCORP
DRILLING SERVICES
Company Profile

Boreholes are our business
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Drilcorp Drilling Services carries out all large commercial water well drilling operations. We also construct deep boreholes for mineral exploration, shallow oil exploration and coal mine methane extraction.

Large diameter boreholes up to 1500mm (5 foot) can be constructed using our specialist reverse circulation drilling machines. Large diameter boreholes are used for commercial sized water production wells, mine dewatering and ventilation.

We offer a full service to our clients ranging from design, construction, installation, development, test pumping, commissioning and licensing and our team of expert engineers are dedicated to providing an unrivalled level of service to our clients in a timely, professional and cost effective manner.
Some Specific Services

- Waterwells
- Large Diameter Reverse Circulation Borehole
- Ground Source Open Loop
- Coal mine Methane, Oil & Gas
- Conductor Casings
- Dewatering
WATERWELLS

The escalating cost of mains water is having an increasing impact on many companies that have a high water usage. Mains water costs alone can account for annual water bills in excess of tens or even hundreds of thousands of pounds.

In many areas of the UK there are huge reservoirs of groundwater (or aquifers) that could easily be tapped into producing significant operational savings. By drilling into these aquifers Drilcorp has provided our clients with an independent supply of abundant good quality water automatically controlled to be delivered at the pressure required.

This has saved our clients hundreds of thousands of pounds. Our client sectors are wide ranging and include; Golf Courses and Sports Stadiums/Pharmaceutical Firms/Farms/Hospitals/Food and Drink Processing Plants/Factories/Abattoirs/Caravan Sites and even Buddhist Monasteries to name but a few.

Whatever your business, if you use large volumes of water, we can probably save you money.
Ground Source Open Loop

At Drilcorp, we have been involved in a number of projects within the growing groundsource industry.

Planning policies, such as the Merton Rule, require new developments to generate at least 10% of their energy needs from on-site renewable energy equipment in order to help reduce annual carbon dioxide (CO2) emissions in the built environment. One way to meet these requirements is to use groundsource heating and cooling techniques for climate control within a building.

Open Loop

This system uses groundwater from aquifers beneath the site, generally by drilling two boreholes of which one is used to abstract water to be pumped through a heat exchanger and the other, a recharge borehole, is used to return the used process water into the aquifer.

As one of the foremost water well drilling contractors in the UK, we are ideally suited to handle these types of projects, particularly in cases of limited access.
Coalmine Methane, Oil & Gas

Whilst working in this industry we have acted as ‘operator’ under the Borehole Sites and Operations Regulations 1995, on many sites including targeted drilling operations into abandoned mine workings for gas extraction. When undertaking such projects you can rest assured that we have the equipment and expertise to deal with the control of explosive emissions.

We are highly proficient in the shallow to medium depth exploration sector, with a range of drilling machinery and in-hole equipment, which means that we will always use the right machine for your project. As our daily rate is considerably lower than the main production rig rate you can not only reduce costs due to our understanding of regulations, you can also be sure that your surface casings and aquifer protection requirements are met.

We are confident that we have the equipment to meet your requirements. Our plant includes conventional core barrels as well as wireline systems, with a capability of coring to depths of 1000m.
Large Diameter Reverse Circulation Boreholes

Reverse circulation is a drilling technique used to drill large diameter boreholes. In order to achieve the necessary uphole velocity of the flushing medium to carry drill cuttings out of the borehole, the circulation system is reversed and the flushing medium flows down the borehole between the borehole wall and the drill string. It then flows rapidly up the inside of the drill string and is ejected into settling pits/tanks at the surface. Drill cuttings now fall out of the flushing medium which then flows back down the annulus completing the circulation procedure. Very large diameter boreholes can be drilled using this method.

Drilcorp has constructed boreholes up to 1500mm diameter and to a depth in excess of 100mtr using this technique with great success. We have several heavy-duty large diameter drilling rigs allowing us to service client requirements for large diameter reverse circulation boreholes.

We are proud to be one of the leading water borehole companies in the UK.
Conductor Casings

Deep Oil & Gas or Geothermal boreholes require big powerful drilling rigs that have a high daily running cost. The top part of a borehole consists of drilling through loose and broken formation, possible mine workings, and it is often an Environment Agency requirement to have important aquifers isolated.

This is time consuming work and often requires several casings to be installed and grouted and it is therefore not cost effective to have the main rig to carry out works on this section of the borehole.

Drilcorp regularly constructs this section of a borehole in advance and has heavy duty machines capable of installing and grouting large diameter conductor casings leaving a borehole prepared ready for the powerful deep drilling rig to rapidly complete the remainder of a borehole.
Dewatering

If your construction or excavation requires a dewatering system, then as one of the foremost UK drilling contractors in the field of Civil Engineering, we can help. We have completed a number of high profile projects including the Stratford Box Permanent Dewatering Project, which involved drilling 22 deep dewatering wells to lower the groundwater levels around Stratford International Station.

We can offer a range of deepwell drilling options; using closed circulation biodegradable polymer mud flush, simultaneous drilling and casing systems, or alternatively with one of our heavy duty percussion rigs.

Wellpoint dewatering systems offer simple, reliable and effective solutions to groundwater problems during excavations by temporarily lowering groundwater levels, therefore improving ground conditions to enable works to be undertaken in dry, safe and stable working conditions. These systems typically involve the installation of wellpoints around the perimeter of proposed excavation. Whether your requirement is for wellpoints, ejector wells or pressure relief wells, you can be sure we have the correct machine for your needs.

Large Diameter Dewatering Wells cover various projects such as Deep Dewatering Wells, Test Pumping Wells, Observation Wells, Ground Water Remediation Wells, Recharge Wells and Tunnel and Shaft Wells. The installation of these wells takes place in order to lower water levels and provide a dry site that is safe and groundwater controlled.
Troubleshooting & Consulting

During the construction of a borehole, drilling engineers may experience problems with difficult strata, broken or dropped drilling equipment or a myriad of other unforeseen complications in the process.

Drilcorp management team have many years’ experience in solving drilling problems worldwide. Our engineers are fully trained in all types of drilling techniques, bits and flushes to suit all stratas. We have many recovery tools and if we do not have one for your particular problem, we will make one. Give us a call and explain your problem and will be only too happy to assist.

Water supply boreholes occasionally run into difficulties. Like any other construction, they occasionally need maintenance. Our Borehole Engineering Services division specialises in troubleshooting just about any borehole related issue and will even offer a ‘Business Continuity Plan, or ‘Routine Maintenance Plan’ to avoid problems occurring in the first instance. If you are a borehole owner and would like more information on what we can offer, please call and we will arrange a visit to discuss our services at no cost to you.
Client Commitment Statement

**Drilcorp Drilling Division** is dedicated to servicing clients and providing the best advice and guidance drawn from our unparalleled experience working on high profile projects across the UK.

We will provide best value for money in the industry.

We will quote accurate and realistic delivery times and endeavour to complete agreed services on schedule.

We will keep our clients fully informed throughout the works process on works activities.

We will do in every respect what we say we will do.

We will provide a fast and efficient backup service when required.

We will promptly inform and consult our clients in the event of any changes in specification deemed necessary at any stage during the works process.
John Gowans
Contracts Manager of Drilcorp Drilling Services

John and his team have decades of relevant industry experience, managing projects into the millions. Please contact John direct with any questions you may have about our company, our services or our experience.

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