



# Down-the-hole drill accident video explanation

What is a down-the-hole drill?

A down-the-hole drill, usually called DTH by most professionals, is basically a jackhammer screwed on the bottom of a drill string. The fast hammer action breaks hard rock into small cuttings and dust that are evacuated by a fluid (air, water or drilling mud). The DTH hammer is one of the fastest ways to drill hard rock.

How was a hole drilled?

This system could not guarantee a finished hole size and only pure vertical holes could be drilled as the system basically relied on gravity. Debris from the hole was baled out using a baling tube with a clack valve, which was periodically dropped on a winch to capture the slurry, which was then brought to the top of the hole to be discharged.

What can we learn from the Deepwater Horizon accident?

The lessons from this tragedy are potent reminders of the pitfalls that can plague complex programs and projects in any industry, even (perhaps especially) those with long track records of success. Prior to the accident, Deepwater Horizon was one of the best-performing deepwater rigs in BP's fleet.

Who employed the driller in the incident?

Silver City Drilling (NSW) Pty Ltd employed the driller in the incident. The incident occurred within the surface boundary of Mining Lease 1533. Silver City Drilling was conducting a drilling operation under contract from Ashton Coal Operations Pty Ltd for the purpose of installing a dewatering pump to dewater the underground longwall operation.

What type of drilling technique was used at the incident site?

The drilling technique used at the time was air rotary hammer. Air rotary hammer drilling is primarily used in hard formations where penetration rates are superior to other rotary techniques such as rotary mud. The incident site was known as dewatering Borehole 4.

What happens when a well is drilled?

At that point, drilling stops, the well is cemented and capped, and the rig is removed. The well owner returns later (typically with a less expensive production rig) to collect the oil.

Down-the-Hole (DTH) drilling is a technique used to create deep, precise holes in hard rock and challenging ground conditions. In this method, ...

In down-the-hole drilling a drill rod is fitted with a hammer at its lower end. The hammer, which is mounted on the drill bit, is activated through the addition of ...



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To recover the string which might be several thousand feet long and 15-90 pounds per foot, they use down hole "fishing" or recovery tools Sometimes a ...

The DCRL130, from Furukawa FRD, is an environmentally friendly & compliant rock drill that is proven, reliable & high-performing while conforming to market ...

In down-the-hole drilling a drill rod is fitted with a hammer at its lower end. The hammer, which is mounted on the drill bit, is activated through the addition of compressed air and driven into the ...

The example in the video (0:51) utilizes a chalk line to show the correlation between penetration rates and drill string rotation. This example is relevant to a six inch hole diameter only. First too ...

Due to a miscalculation, the 14-inch drill bit entered the mine, starting a remarkable chain of events which at the time turned an almost 10 foot deep freshwater lake into a salt ...

The 11-minute animation illustrates how the Deepwater Horizon's blowout preventer failed to seal the well on the night of the accident because ...

From the stable crawler chassis to the efficient drilling device, you can get a thorough understanding of the crawler down-the-hole drill rig through static appearance display, ...

The operator climbed up the boom of the drill rig to tighten a grease nipple on the rod carousel. He placed his foot on the shank, and the drill string, consisting of 4 x ST58 tube ...

Leopard(TM) DI550 diesel-powered, down-the-hole (DTH) drill has enhanced mobility, a smaller footprint and can serve multiple sites. Designed for DTH ...

Explore effective down-the-hole drilling techniques using impactors for 25m deep water well projects. Learn about air compressors and drilling rigs! #DownTheHoleDrill #WaterWellDrilling

DTH drilling, also known as Down-the-Hole drilling, is a method used to drill boreholes into the earth's surface. This technique involves a hammer that is ...

This mixture is then pumped down the drill pipe to the drill bit, which assists in cutting through the formation and carrying the cuttings back to the ...

A Down-the-Hole (DTH) hammer is a drilling tool that operates at the bottom of a drill string, using compressed air to power a piston and deliver high-impact energy, enabling ...

The now generally accepted explanation is that a miscalculation by Texaco regarding their location resulted in



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the drill puncturing the roof of the third level of the mine. ...

DTH hammer is used for drilling holes through a wide range of rock types, the variety of which continues to extend well beyond the original conception of early blast hole drilling. Down-the ...

RC, or reverse circulation, drilling is a tried and true drilling method in certain circumstances. Drillers usually use it on large-diameter holes because it is faster and easier to ...

&quot;Learn from a real-life incident: Drill pipe drop from elevator causes incident on rig floor. Understand causes and prevention strategies.&quot;&quot;This video showin...

The document discusses Down-The-Hole (DTH) drilling. DTH drilling involves a mini jackhammer located behind the drill bit that breaks rock into small pieces. It is a fast way to drill hard rock ...

Rock Drill Division News & EventsThe Important Role Drifters Play in Rock DrillsRock drills are broadly classified into three types based on the drilling ...

CENTER ROCK products boast a formidable range of down-the-hole (DTH) hammers, presenting a suite of drills and downhole bits spanning 3.5"- 48" ...

Discover the power of down the hole drilling technology featuring superior performance in hard rock, enhanced accuracy, and advanced automation capabilities for efficient and precise ...

Down-the-hole (DTH) hammer drilling is often used to drill large, deep holes in hard rock formations or concrete. It is, as the name tries to explain, a hammer ...



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