

REI | DRILLING

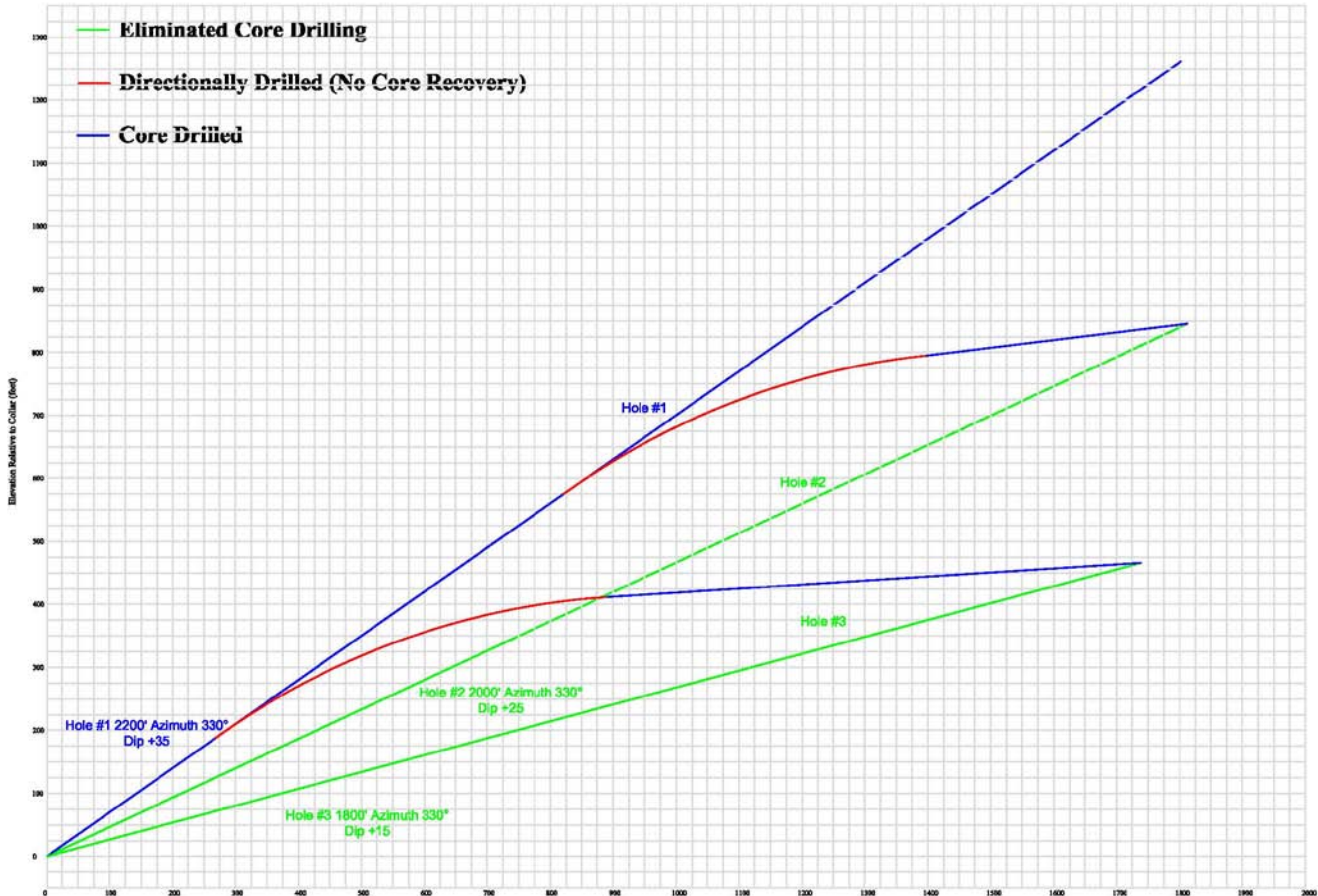
DIRECTIONALLY STEERED COREHOLES

REI Drilling has been directional drilling for more than 25 years. In 2007 REI entered the hard rock market and operates 3 core drills that are suitable for surface or underground operation.

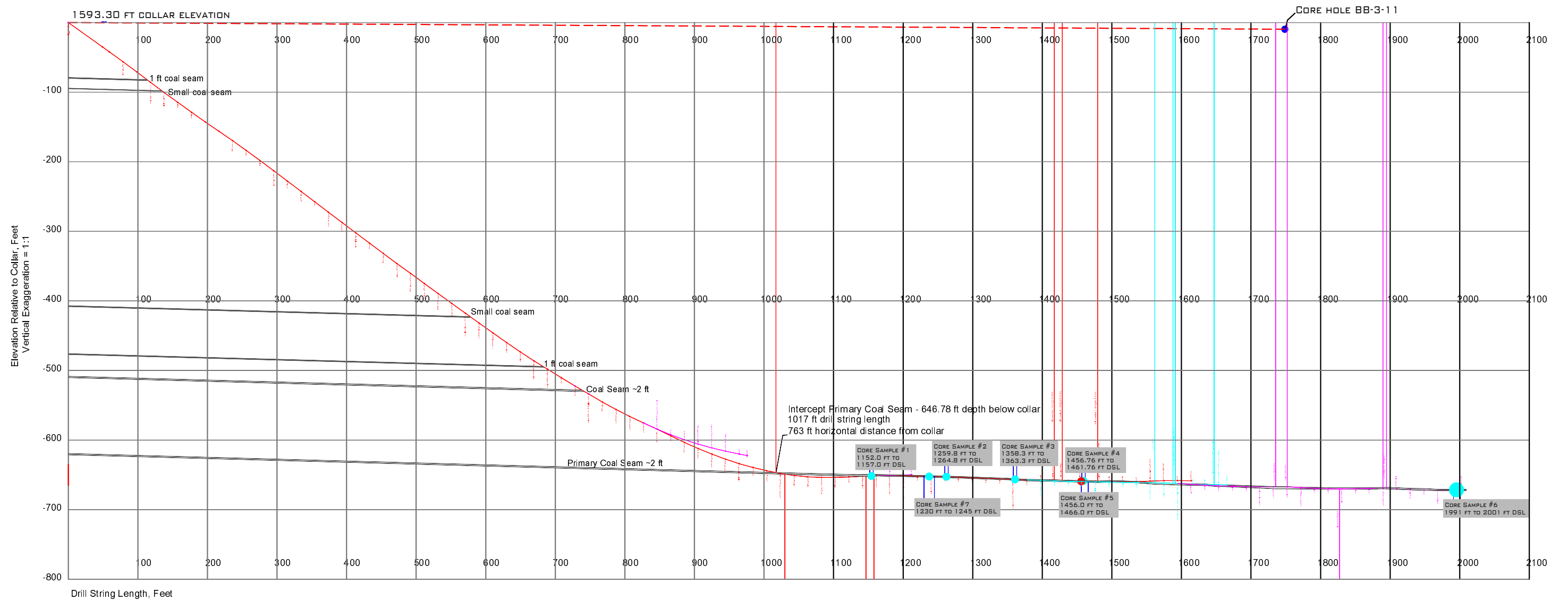


Among REI's most unique attributes is the ability to directionally steer a corehole. While largely underutilized in the hard rock sector directional steering of boreholes is now commonplace in nearly all other types of drilling. In this process REI drills a pilot hole using traditional wireline coring techniques. Then sidetracks are drilled from the pilot hole to additional target locations. This eliminates the need for a separate wellhead for every corehole. It also eliminates substantial amounts of repetitive drilling. These two benefits alone can reduce your drilling costs by as much as 25%.

In the example below directionally steered coreholes eliminate the need for two additional collars while reducing the total footage by more than 20%. This reduces labor rates, equipment rates, materials, and increases the speed at which boreholes are completed. All in all your drilling budget lasts longer and explores more areas of interest than ever before.



PROFILE



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Surface to In-Seam Directional Drilling for Coal Quality Determination

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REI Drilling, Inc. directionally drilled one (1) surface to in-seam borehole to a total depth of 2000 ft for measurement of coal quality via spot core sampling along the borehole path. The target coal seam was approximately 2-3 ft thick and was intercepted laterally at a depth of 646 feet below the collar. Medium radius (deviation of approx. 8"/100ft) surface to in-seam drilling techniques were used starting at a 45 degree inclination. REI's motorcore system was utilized as means for retrieving the core samples at specified locations by the mine operator.