

Coiled Tubing

Coil Tubing crew saves drill string stuck at 9800 feet horizontal.**Location**

Bakken Shale

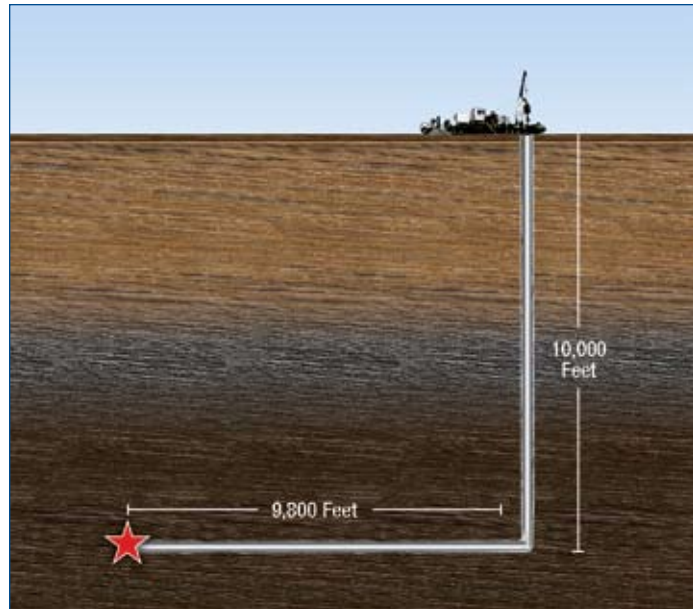
Operator Challenge

On 1 January 2009, a coiled tubing crew from Key Energy Services arrived on a customer's horizontal drilling site. The problem was a stuck drill string with tools in the horizontal portion of the well at 19,800 feet.

The team selected, modeled and properly mixed a pipe-on-pipe metal friction reducer that would help for such a deep target-depth. By 10 am, the equipment was rigged up and the RIH began

Result

At approximately 10,000 feet depth well kicked out to the horizontal. The Coiled Tubing crew ran 9,800 feet in the horizontal section to reach the stuck equipment. A sand cutter was used to free the drill tools. Not only was the entire drill pipe recovered, the tools were as well. A total of \$250,000 in equipment was saved along with a valuable section of the production zone.



** not to scale*