

Application	Underbalanced thru-tubing reentry drilling (TTRD)
Geology	Carbonate
Hole size	3 $\frac{3}{8}$ in
Total footage	8,620 ft [2,627 m]
Single-run footage	3,600 ft [1,097 m]
Dogleg severity	25°–35°/100 ft

Background

In the carbonate layer of an interbedded formation, an operator encountered wellbore stability and BHA sticking issues when drilling openhole laterals with nitrogen-enriched fluid.

Technology

CTDirect* coiled tubing directional drilling system

CTDirect System Increases Average ROP by 200% in Deep, Tight-Gas Reservoirs

Operator drills more than 3,600 ft in a single run, Middle East



After introducing the CTDirect system, 8,620 ft were successfully drilled in a deep well with high temperatures. In the best run, the BHA drilled 1,400 ft [427 m] in 24 h, exceeding the field's average TTRD ROP record by 200%.