

Application	Underbalanced thru-tubing reentry drilling
Geology	Sandstone
Hole size	3 $\frac{5}{8}$ in
Length drilled	3,990 ft [1,216 m]
Dogleg severity	25°–40°/100 ft
Unconfined compressive strength	35,000 psi [241.3 MPa]

Background

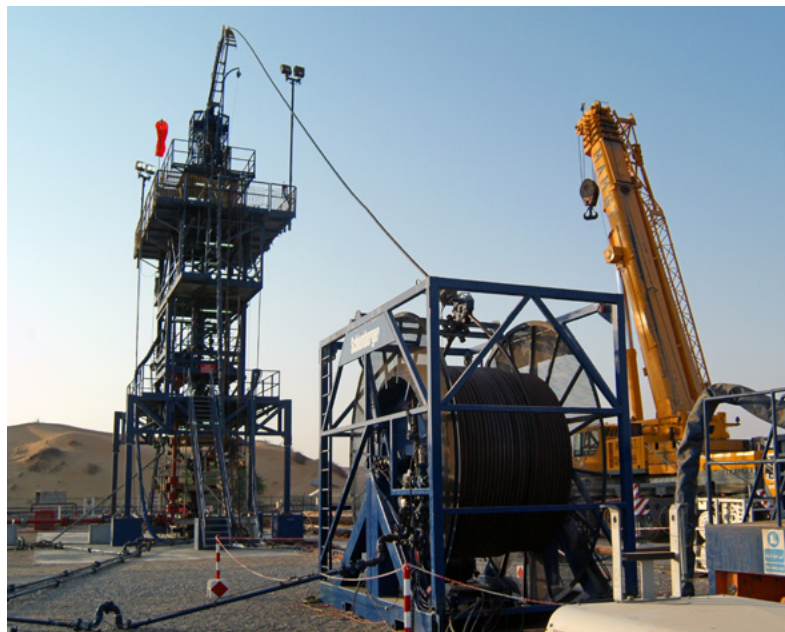
In the sandstone layer of an interbedded formation, an operator encountered wellbore stability and BHA sticking issues when drilling openhole laterals with nitrogen-enriched fluid.

Technology

CTDirect* coiled tubing directional drilling system

Operator Accesses Previously Unreachable Targets and Improves Average Field ROP by 20%

CTDirect system improves drilling efficiency in tight, abrasive sandstone



The CTDirect coiled tubing directional drilling system successfully drilled more than 3,990 ft in a deep tight-gas sandstone reservoir with high temperatures. The operator reached all previously unachievable geological targets for significantly increased gas recovery. Using the CTDirect system, the operator exceeded the average field ROP by 20%.