



CASE STUDY: *Smashed performance records for customer*

MegaForce™ Drill Bit

MegaForce™ Drill Bit Speeds through Hard, Abrasive Rock to Set Kuwait Field ROP, Footage Records

Overview

A customer looked to Halliburton’s Drill Bits and Services for a solution to drilling through a hard and abrasive formation in Kuwait. Halliburton recommended the MegaForce™ Drill Bit with SelectCutter™ PDC technology to provide a faster rate of penetration (ROP) with longer drilling intervals. This solution enabled the customer to drill almost double the planned footage.

The matrix body of MegaForce™ drill bit is designed to stay sharper longer, thereby providing more footage at higher ROPs. The bit’s Advanced Tungsten Carbide Matrix material reduces erosion and wear while the multi-level force balance increases bit stability during drilling. The Micro nozzles of MegaForce™ drill bit enhance hydraulics to improve fluid flow across the cutting structure. The reduced drill bit length of MegaForce™ drill bit increases directional control.



MegaForce™ Drill Bit

CHALLENGE	SOLUTION	RESULT
The customer needed a robust drill bit for a vertical 16-in. hole section through sandstone and limestone. The customized bit needed to endure high abrasiveness and repel the high torque at the bottom.	The MegaForce™ drill bit has an aggressive cutting structure due to the SelectCutter™ technology keeping the elements sharper for longer periods. This capability enabled more footage to be drilled at higher ROPs. The bit’s multi-level force-balancing technology, along with the optimized dual-row cutting structure, enabled an over 1,000-ft section to be drilled at a faster ROP than the field best of 20 ft/hr.	The MegaForce™ bit drilled 1,197 ft at an average ROP of 32.4 ft/hr and delivered the longest interval with the fastest ROP in the field. This performance provided an 11% improvement in footage drilled with a 62% increase in the ROP. The results provided the customer with a 31% time savings.

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Drill Bits and Services

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