



CASE HISTORY

Drilling & Completions: Drilling Optimization

TAMPlug Permanent Bridge Plug System

TAMPLUG PERMANENT BRIDGE PLUG SYSTEM

Isolating a Gas Zone Below an Open Hole Cement Plug - Culberson County, Texas



CHALLENGES: A gas bearing zone had been contaminating the open hole cement plug used as a base to kick off from the pilot hole and drill lateral wellbore sections for a Texas well. The operator earlier had attempted to set cement plugs several times in similar wellbores without success. Not only was gas contaminating the cement plug in this well, it was also channeling gas to the surface, creating hazardous conditions.

SOLUTION: TAM was contacted and provided a solution using a bottom hole assembly (BHA) consisting of a TAMPlug Permanent Bridge Plug System. The TAMPlug system was run to depth on drill pipe, and the inflatable bridge plug was set using 10 lb/gal brine. The drill pipe was right-hand released from the bridge plug, and the cement plug was pumped through the drill pipe and the TAMPlug running tools. The TAMPlug Permanent Bridge Plug was set in the 6 1/8 in. hole at 10,100 feet.



RESULTS AND BENEFIT: The TAMPlug was set successfully in the open hole, sealing off the gas below and allowing the operator to pump a cement plug without the concern of gas channeling through and around the cement. The operator could next pull out of the hole, pick up the drilling BHA, and kick off the plug. The lateral section of the well was then drilled successfully.