



CASE HISTORY

Well Intervention: Thru-Tubing Temporary Abandonment

Single-Set Inflatable Packer

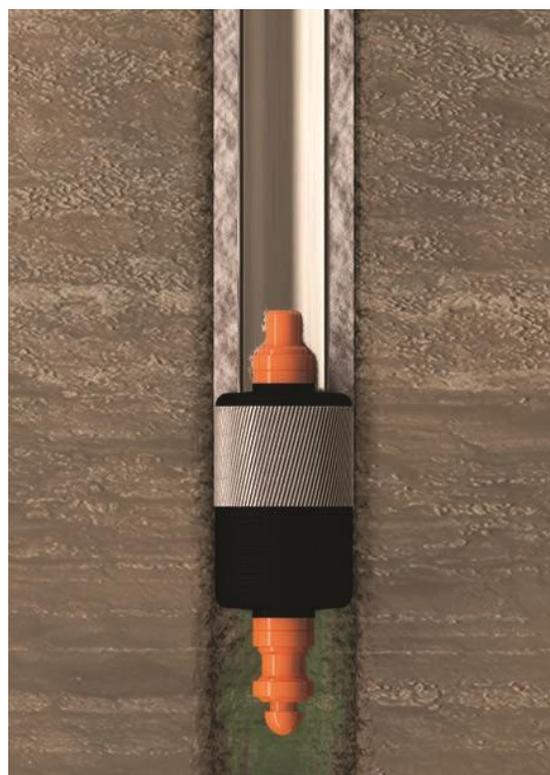
TEMPORARY WELL SUSPENSION IN REMOTE GAS FIELD

1-11/16 in. Single-Set Inflatable Bridge Plug is set in 5-1/2 in. casing to temporarily stop gas flow through a casing leak without pulling the 2-3/8 in. tubing string

CHALLENGES: An operator in Northeast British Columbia, Canada, had a gas well in a remote site with well integrity issues in the intermediate and surface casing. The sustaining surface casing pressure was 778 psi (5,500 kpa) with visible gas bubbles around the wellhead. The cost of rig matting to mobilize a workover rig to the location and pull the tubing was prohibitive. The objective was to set a bridge plug just below the tubing to shut off gas flow and suspend the well until access with a workover rig is viable.

SOLUTION: An innovative solution was provided to the operator in collaboration with a company that brought in a slickline unit by helicopter. A run with a gauge ring then a wire brush was performed, followed by a pressure test of the tubing string. A BHA consisting of a ported profile plug, pup joints, knuckle joints and a 169-SS-01BP Single-Set Inflatable Bridge Plug was deployed via slickline. The Bridge Plug was run through the XN nipple and out the end of the tubing. The ported profile plug was landed in the XN nipple, placing the Bridge Plug 6 ft (1.87 m) below the tubing. The tubing was filled with fluid and pressured to inflate and set the Bridge Plug. The casing pressure was bled off and monitored for three days to verify isolation of the perforated interval below.

RESULTS AND BENEFIT: The well was successfully suspended. The customer achieved substantial savings of \$800,000 by meeting the objective without the use of a workover rig.



TAM's Single-Set Inflatable Packer