PulseEight™ Secure

SUCCESS STORY

PulseEight™ Secure enables safe production above velocity string

Bolivia

2.5hr
DEPLOYMENT

14
MMscf/DAY PRODUCTION SAFELY REINSTATED

$$$
WORKOVER COST SAVINGS

PulseEight Secure is a wireless, retrofit solution that restores flow in wells with failed DHSV. The API 14A qualified design features built-in intelligence to autonomously detect critical downhole safety events and immediately secure the well, while still allowing full on-demand open/close control and continuous integrity monitoring.

THE CHALLENGE

A land well originally completed with 7" casing and producing 70 MMscf/day experienced early water break through, leading to rapid water loading and significant decline in gas production to 14 MMscf/day. Velocity in the 7" casing was not high enough to lift water making continued production inviable. To mitigate this a 2 7/8" velocity string was installed to increase flow velocity and unload water. The string set across the existing TRSSV rendering it operable.

THE SOLUTION

PulseEight Secure was set above the velocity string at 98ft via slickline and set on a retrievable packer.

Safety triggers were designed in line with dynamic well conditions.

WELL DATA

- Location: Bolivia
- Well Type: Land Well
- Tubing size: 7 inch
- Water breakthrough resulted in recompletion with 2 7/8" velocity string (set from 80mMD to 400mMD)
- Existing TRSSSV inoperable due to new velocity string

THE RESULT

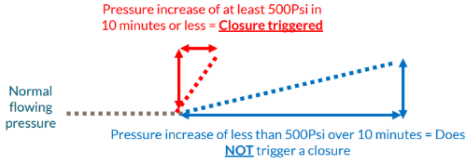
By introducing a 3.5" PulseEight Secure, the client saved significant cost and minimized lost production due to the retrofittable benefits of the PulseEight Secure.

The flexibility to set at any depth on a retrievable packer provided the ideal solution, avoiding workover time and cost to replace the existing TRSSSV allowing the well to be put back on production at 14MMscf/day.

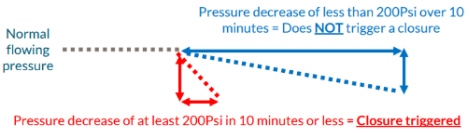
The PulseEight Secure was configured to dynamically assess the flow regime a well prone to slugging, its intelligence enabled it to distinguish between transient flow anomolies and genuine safety critial events.

Regular communication from the valve occurred weekly via the PulseEight Secure's unique "vitality pulse", providing the customer with continuous reassurance of integrity.

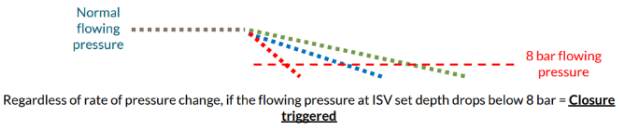
1. An increase in flowing pressure at ISV set depth of at least 500Psi within the preceding 10 minutes

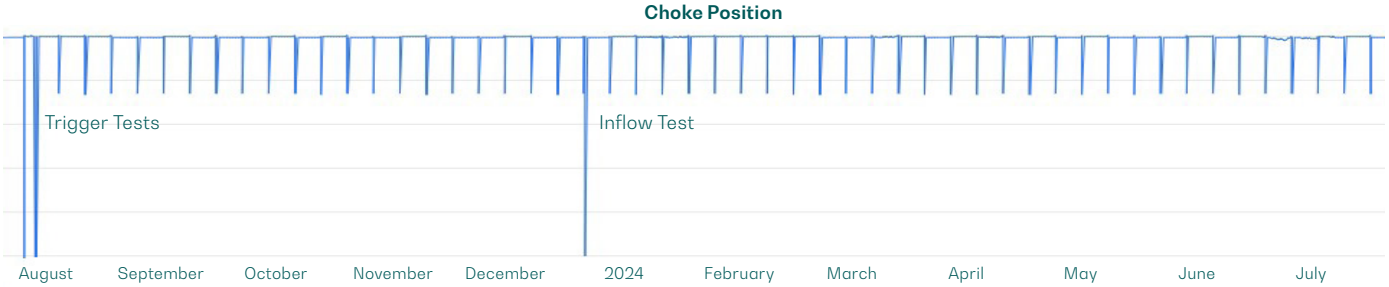


2. A decrease in flowing pressure at ISV set depth of at least 200Psi within the preceding 15 minutes



3. Absolute pressure limit of 600Psi flowing pressure at ISV set depth





Snap shot of well data, showing trigger testing after install, mid year inflow test and weekly vitality pulses