Casing Repair Project

China

Challenge
Find an economical and efficient technology to remediate corroded and worn casing and to shut-off water producing perforations for a multi-well, multi-field project.

Objective
Design and implement a field-level remediation plan using cased-hole Solid Expandable Tubular (SET®) technology to facilitate production restoration.

Results
This project installs bull-nosed 4-1/4 x 5-1/2 in. cased-hole SET systems in the land wells. By isolating watered-out upper perforations the operator is able to produce exclusively from lower intervals with higher oil cut. To date, Enventure has installed over 100 CHL systems and over 12,600 ft of expandable pipe. Liner lengths have ranged from 75 to 260 ft with setting depths from 1,650 to over 10,400 ft.

Value Added
The remediation and repair of wells with expandable liners increased the daily output on an average of 22 BOPD per single well.

- The first well increased production from 0.9 bbl/day to 9.0 bbl/day - an 8.0 bbl/day improvement.
- Other individual wells saw increases from 5 to over 400 BOPD and from shut-in to 128 BOPD.

When conditions called for sidetracking out of the existing casing, SET technology successfully preserved hole size to economically justify completion for production.