



*Profit from experience.<sup>SM</sup>*

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**Production  
Solutions**

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**From re-entry programs to remediating fields, Enventure offers a broad list of applications and products to help meet your objectives.**

**Damaged Casing.**

Damaged tubulars compromise production, making maintenance and repair absolutely essential to ensuring well integrity, and preventing an eventual failure of the tubular infrastructure.

SET Systems install solid steel expandable casing across troubled areas—a permanent repair solution. Additionally, the expansion process ensures maximum ID and production with minimal downtime.

**Enhancing Production.**

With 70 percent of oil production coming from fields more than 30 years old, forward-thinking operators are increasingly using existing infrastructure to access new reserves from old platforms. Boasting higher collapse and burst ratings, SET expandable systems are commonly applied in sidetracking and well deepening programs designed to access new or stranded reserves, and zones below depleted formations.

**Permanent, Robust, Reliable.**

Enventure’s SET technology provides a robust, permanent alternative to unreliable cement squeezes and patches while maximizing ID and maintaining the largest production conduit possible. SET Cased-hole Liners (CHL) and FlexClad Systems are effective solutions for addressing water control and injection control issues.

Solutions Matrix	Cement Squeezes	Casing Patches	Solid Expandables
Life	Low	Medium	High
Ease of Installation	Medium	Low	High
Integrity	Medium	Low	High
Pressure Resistance	Medium	Low	High

**Case Study: Enabling Field Production Enhancement, Texas, USA**

**Challenge**

Enable field-wide re-stimulation program by isolating perforations and enhancing wellbore integrity while retaining hole size required by the hydraulic frac design.

**Objective**

Restart or improve production using SET technology to isolate zones and provide a high pressure environment for an aggressive re-frac program

**Results**

In an ongoing workover program, 4-1/4 x 5-1/2 in. expandable cased-hole liners are installed in varying lengths to achieve multiple goals. Older perforations in the higher formation are isolated and new zones in lower formations are hydraulically stimulated. Liners in the upper section provide a reliable means of isolation. In the lower sections, liners enhance wellbore integrity to protect old, damaged casing from the high pressures required by frac treatment.

**Value Added**

- Minimal loss of internal diameter
- Increased average production per well

**SET Technology:**

- Repairs casing leaks, liner hanger leaks and corrosion
- Covers parted casing
- Strengthens casing prior to stimulation or zonal isolation for recompletion
- Enables shut-off of pre-existing perforations

**Installing a SET expandable system can:**

- Shut off high water-cut in production
- Improve water-flood sweep efficiency
- Maximize ID for better flow efficiency
- Provide a permanent solution versus a temporary fix
- Reinforce casing for re-stimulation

