// WESTERN FALCON ENERGY SERVICES

INJECTION WELL LINING OPPORTUNITIES FOR USED PIPE

Protect Your Capital in Waterflood & CO2 Flood Applications

Injection wells support production but do not generate revenue on their own, which makes every foot of tubing and every technology choice in a workover a direct opportunity to protect capital. With the right tubing package, that capital is deployed into producing assets.

WFES lines used injection tubing with fit-for-purpose thermoplastic liners, often directly over existing IPC with no burnout required. Operators return field-ready WF lined tubing to service at a lower total cost than new coated tubing, with improved technical performance that extends uptime and maximizes value across the life of the well.

// THE ADVANTAGE

$5/FT
AVERAGE SAVINGS COMPARED TO NEW COATED TUBING

$25K
AVERAGE SAVINGS PER 5000FT INJECTION WELL

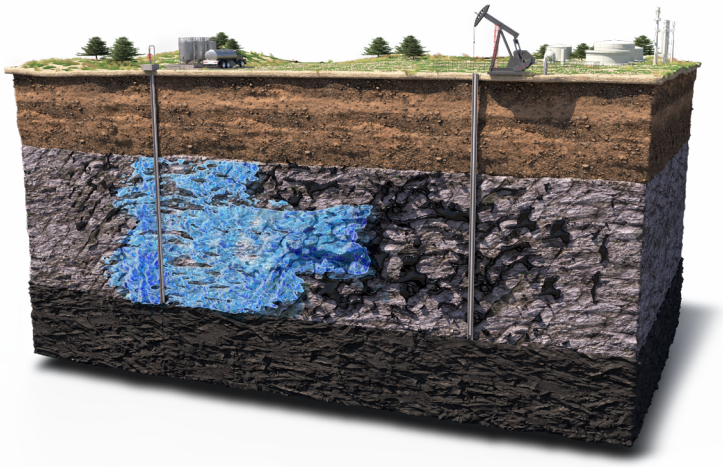
NO BURNOUT
LINE OVER EXISTING IPC (WHERE APPLICABLE)

ZERO HOLES
IN 100M+ FT OF LINED INJECTION TUBING

// APPLICATIONS

BUILT FOR INJECTION. SPEC'D BY APPLICATION.

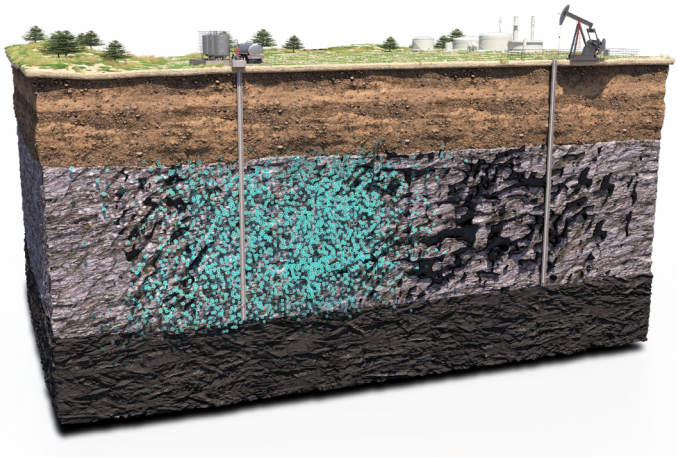
WFES does not sell a one-size-fits-all liner. Every injection application is evaluated by volume, pressure, temperature, depth, tubing condition, and long-term economic goals. The same liner technology can often be used on the production side of the flood, helping operators reduce complexity and risk while simplifying inventory and purchasing across the field.



WATERFLOOD APPLICATIONS

For water injection, lined used tubing gives operators a lower-cost alternative to new IPC-coated tubing while reducing waste, avoiding burnout, and improving long-term injection reliability.

COMMON LINER TYPES:
POLYCORE™, MODIFIED POLYCORE™



CO_2 FLOOD APPLICATIONS

For CO_2 injection, liner selection becomes more technical. WFES helps operators match the right thermoplastic liner to pressure, temperature, gas exposure, and permeation considerations.

COMMON LINER TYPES:
COTUBE™

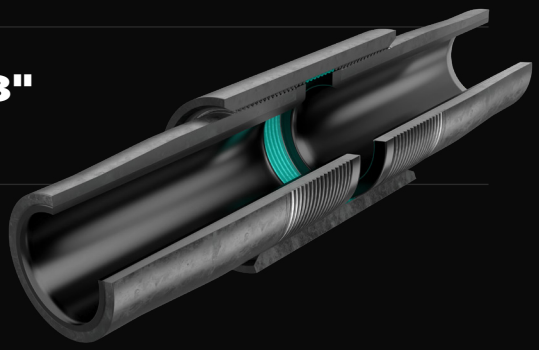
FROM USED TUBING TO FIELD-READY LINED TUBING

01. Tubing is sent to WFES from field or inventory.	02. Pipe body is inspected and hydrotested where required.	03. Couplings are bucked off.	04. Pin ends are ring gauged to new mill API specification.	05. Out-of-spec threads are re-chased, keeping remaining upset length
06. Existing IPC stays in place. No burnout required.	07. New thermoplastic liner is installed, spec'd to the well.	08. New coated WF IS+ collars are bucked on.	09. Injection-ready tubing is returned to the operator.	

1.9" – 7"
SIZE RANGE

1, 2, 3
RANGE

2 3/8" & 2 7/8"
MOST COMMON SIZES



NEW COATED TUBING VS. WFES LINED USED TUBING

NEW COATED TUBING	WFES LINED USED TUBING
New steel required	Operator-used tubing lined for service
Higher upfront cost	Average $5/ft cost savings
Burnout may be required before recoating (used pipe)	No burnout required over IPC where applicable
Steel pricing exposure	Reduced dependence on new steel pricing fluctuations
Standard coating selection	Fit-for-purpose liner spec'd to the well environment
API permits J-area split threads	J-area split threads prohibited for coating integrity

For critical applications, new lined tubing can also be spec'd based on well environment and performance requirements.

// CASE STUDY ECONOMICS

AVERAGE SAVINGS COMPARED TO NEW COATED TUBING

PROGRAM SIZE	ESTIMATED SAVINGS
1 Well	$25,000
10 Wells	$250,000
100 Wells	$2,500,000

Savings based on an average $5/ft delta and an approximate 5,000 ft injection well. Actual savings vary by tubing size, footage, tubing condition, liner selection, and project requirements.

DESIGN YOUR FLOOD

Request sample curves, budget costing, and a fit-for-purpose liner recommendation for your next water or CO2 flood application.

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