



WELLVENE

ENGINEERED WELL SOLUTIONS



PRODUCT OVERVIEW

TUBING & WIRELINE RETRIEVABLE
DHSV REMEDIAL PACKAGE

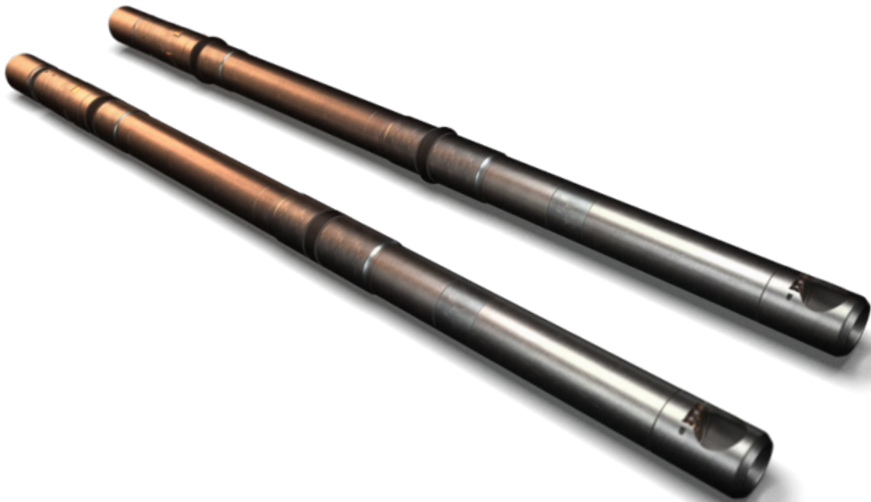
BACKGROUND

With over 7500 development wellbores drilled in the UKCS, of which the OGA Wells Insight Report 2018 states over 2000 are currently online, it is fair to conclude there are a wide variety of different size and types of TRDHSV's and WRDHSV's installed and currently in use within varied completions in the UKCS.

With an approximate 600 additional wells reportedly shut in, and a number of these due to DHSV related integrity issues, this contributes to a significant loss in production across the UKCS (and globally). Wellvene believe this industry issue can potentially have an easy solution should an alternative approach be adopted by both Operators and Service Companies with the planning and management of DHSV related integrity operations.

As UKCS well stock ages and more TRDHSV's and WRDHSV's develop operational issues, Operating and Service Companies often encounter difficulty obtaining the required level of equipment to allow for both investigative operations on a failed DHSV to be completed and a remedial solution to be implemented during the same campaign to reinstate functionality to the valve and return the well to production.

Current methods involve potential long lead times, and working with numerous service providers to source a complete remedial tool package. This may then involve multiple visits and operational runs to resolve the issue. Depending on the severity of failure mode identified, the only available solution may ultimately lead to the installation of a straddle assembly or workover of the well.



SOLUTION

The introduction of the Wellvene DHSV Remedial Package aims to provide the Industry with a single source solution, whereby Wellvene both supply and manage the complete DHSV remedial package requirements to ensure the TRDHSV functionality can be reinstated where possible or ultimately locked open and an Insert DHSV installed and successfully tested. This allows the well to be returned to production during a single intervention campaign, therefore reducing operational risk, cost and minimising production loss.

DHSV Remedial package designed to suit any size, type and manufactures TRDHSV / WRDHSV. Package includes.....

Investigative Runs / Restore Functionality

- Range of Hold Open and Protection Sleeves
- Flapper Status Verification Tool – Confirm functionality of Flowtube / Flapper. Can run c/w Camera
- Chemical Soak Tool – Spot and hold chemical across complete TRDHSV to clear debris / scale from Flowtube
- Wire Brush – 360° Brass contact to effectively clean across Flowtube and Seal Bores
- Exercise Tool – OEM supplied within Wellvene Tool Package

Lock Out TRDHSV and Install WRDHSV

- Lock Out Tool – OEM supplied within Wellvene Tool Package
- Wellvene Lock Mandrel, Pack Off and Viking API Monogrammed Insert DHSV
- V-Packing Stack Arrangements for optimal sealing capability / configuration
- Tendeka / Wellvene Swell Stacks – Qualified to 10,000psi Gas in 1.65mm Wire Tracked Groove / Damaged Seal Bore
- DEWellVeX™ (Patent Pending) - Dual Expanding Element Pack Off c/w Viking API Monogrammed Insert DHSV
- Running and Pulling Tools / Prongs



1 REMEDIAL PACKAGE, 1 CAMPAIGN, 1 RESULT

Integrity and Production Reinstatement

TENDEKA

WELLVENE
ENGINEERED WELL SOLUTIONS

VIKING
Completion Technology



Flapper Status Verification Tool



Chemical Soak Tool



360° Rotational Brass Brush



Max ID Sleeve



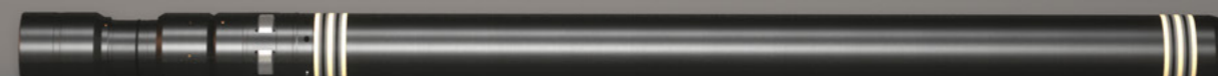
Inline Running Tool for Max ID Sleeve



WRDHSV Pulling Tool



WRDHSV Running Tool



TRDHSV Isolation Sleeve c/w Melon or Burst Disc EQ Assy



DEWellVeX™ (patent pending) - Dual Element Pack Off c/w Viking API Monogrammed Valve



WRDHSV c/w Viking API Monogrammed Valve

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