

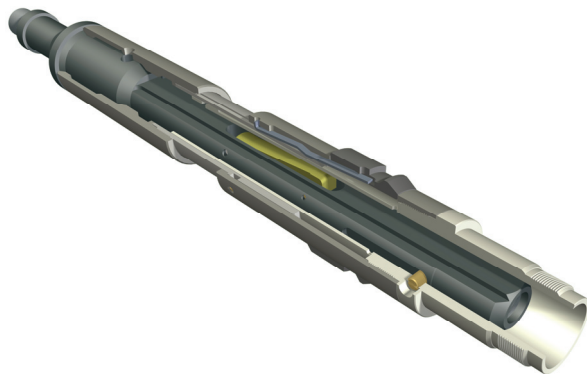
Welcome to the 40th edition of Peak e-News. The sole focus of this issue is on the recent development of the Peak Flow Safe Lock Mandrel. The Flow Safe Lock Mandrel is another design which further demonstrates Peak's ability to provide simple, yet very effective solutions when targeting well integrity concerns.

PEAK FLOW SAFE LOCK MANDREL

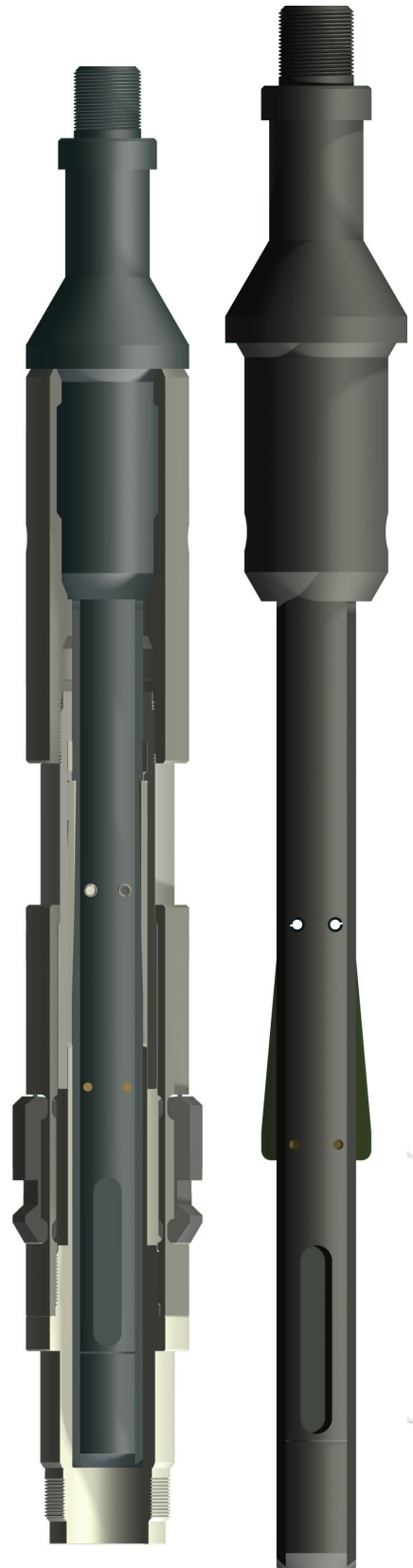
Oil and Gas Operators have always considered well integrity to be a matter of great importance but after recent events in the GOM, it is apparent that many Operators have had to review their current safety systems and procedures. In many aspects of their operations, Operators have had to ensure that all possible preventative steps are taken to ensure the safety of its people & ongoing integrity of its assets. More stringent test procedures, procedural reviews and mitigating controls are being put in place to prevent a loss of well control which has the potential to cause significant harm to personnel, equipment and the environment.

The Tubing or Wireline Retrievable Safety Valve (TRSV / WRSV) is a safety critical, failsafe component incorporated into most downhole completion designs today. Particularly in offshore installations, Safety Valves can be considered as the most important device on the installation to ensure well integrity and hydrocarbon containment in the event of a system failure or damage to the surface production-control facilities.

An incorrectly set Safety Valve poses serious well integrity risk with serious potential to cause harm in the event that the valve is unset from the nipple profile. With this in mind, Peak have developed the Flow Safe Lock Mandrel (FSLM). The FSLM fits directly onto a Wireline Retrievable Safety Valve and its primary function is to ensure the WRSV is correctly locked in place. The Flow Safe Lock Mandrel is retrofittable to suit the uppermost "X" type nipple profile and prevents the possibility of unknowingly setting the Wireline Retrievable Safety Valve incorrectly. Traditional smaller diameter "X" type lock mandrels do not incorporate a flow secure, anti-vibration mechanism within the lock assembly, nor does the associated running tool incorporate a check set, tell-tale device.



The Peak Flow Safe Lock Mandrel incorporates a flow-secure, Collet engagement feature which prevents flowing fluid or gas turbulence from opening the FSLM Fish Neck. Without such a feature, there is a possibility that, during a flowing well, the fish neck can move into the open position which would de-support the locking keys. As soon as differential pressure is seen across the WRSV, which generally occurs when the valve is closed, the valve has the potential to be unseated and flowed from the nipple and a critical well barrier lost. The Peak FSLM Running Tool incorporates a positive, confirmatory shear pin tell-tale feature and in the event that the Running Tool returns in the sheared position, it indicates that the Expander Mandrel / Fish Neck has not fully travelled, indicating that the Lock has not fully set. The FSLM is designed to accommodate existing X Nipple Profiles and is currently available to suit 2 7/8" & 3 1/2" nominal nipple profiles. For more information on the Flow Safe Lock Mandrel please contact info@peakwellservices.com



Click on thumbnail for more information on the Flow Safe Lock Mandrel



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