

SLOTTED LINER ASSEMBLIES

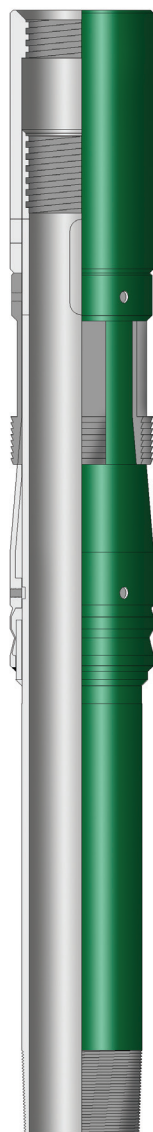
MODEL S STEEL SEAL SAND CONTROL ADAPTER (SCA)

The Chancellor Steel Seal Sand Control Adapters are a superior choice for providing a secure annulus seal between the production liner and the well casing in thermal applications. The seal element is machined from ductile steel and forms a thin wall metal to metal annular seal. When set, the sealing ring provides a natural downward facing cup that is designed to facilitate retrieval.

The setting tool running nut is engaged to the adapter in a safety position while running in or driving over a liner top. In this position premature setting of the seal is prevented if an obstruction is encountered. The setting procedure is similar to that of any other common liner top adapters. 10,000 lbs is sufficient weight to set the seal.

The Chancellor Steel Seal Sand Control Adapters work remarkably well for thermal wells where liner expansion/contraction and steam cutting often cause other seal elements to fail. The metal seal element will maintain a full circle seal through such cycles. The seal has field tested to 1200 psi. U.S. Patent No. 4,796,786 has been given to this invention.

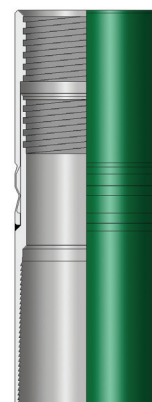
The original Steel Flare Sand Control Adapter was designed and developed in the 60's when steam flood was first introduced for enhanced recovery of heavy crude. This SCA has been continually improved over the years. The most recent design is the Model S. Because of its simple design, it is economical and efficient to use. The Model S was designed to be an all weight size and is very easy to set. The S steel element can be set on tubing, no drill collars are required. The Model S has a reduced O.D. and is a good choice when circulating is required or tight spots in the casing are anticipated.



MODEL S WITH
HOLD DOWN SLIPS



TIGHT LINER TYPE



DRIVE OVER
TYPE



BEFORE SET AFTER SET



LINER BOTTOM
TYPE