

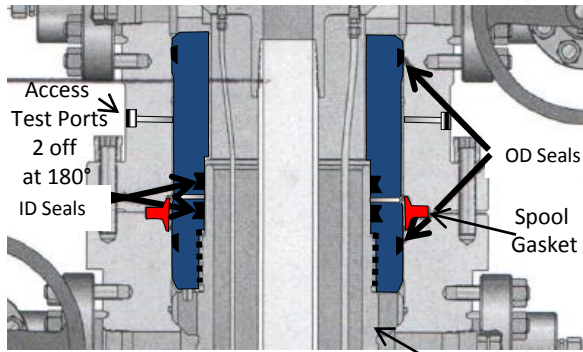


# Kinetics Controls & Innovation Ltd

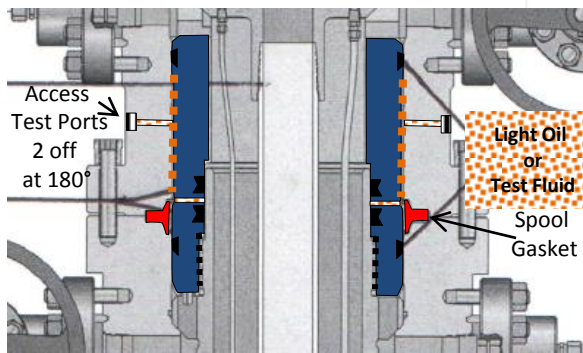
## Land Well PNG Wellhead Isolation 9-5/8" Mandrel Casing Hanger

Indications are that there is communication between the A and B annulus. The first step in the evaluation is to re-test and if required inject sealant into cavity between the 11" and 9-5/8" cavities.

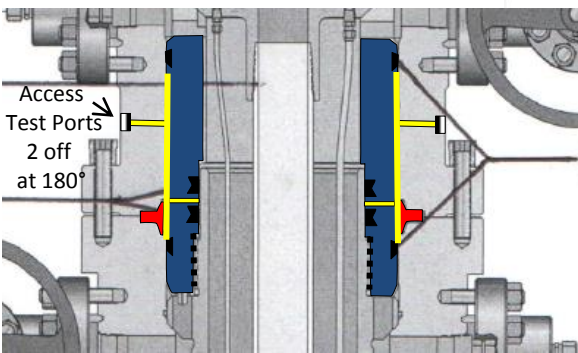
**Note:** By injecting and filling the cavity it will protect the Spool Gasket from any annulus pressures.



9-5/8" Mandrel Casing Hanger

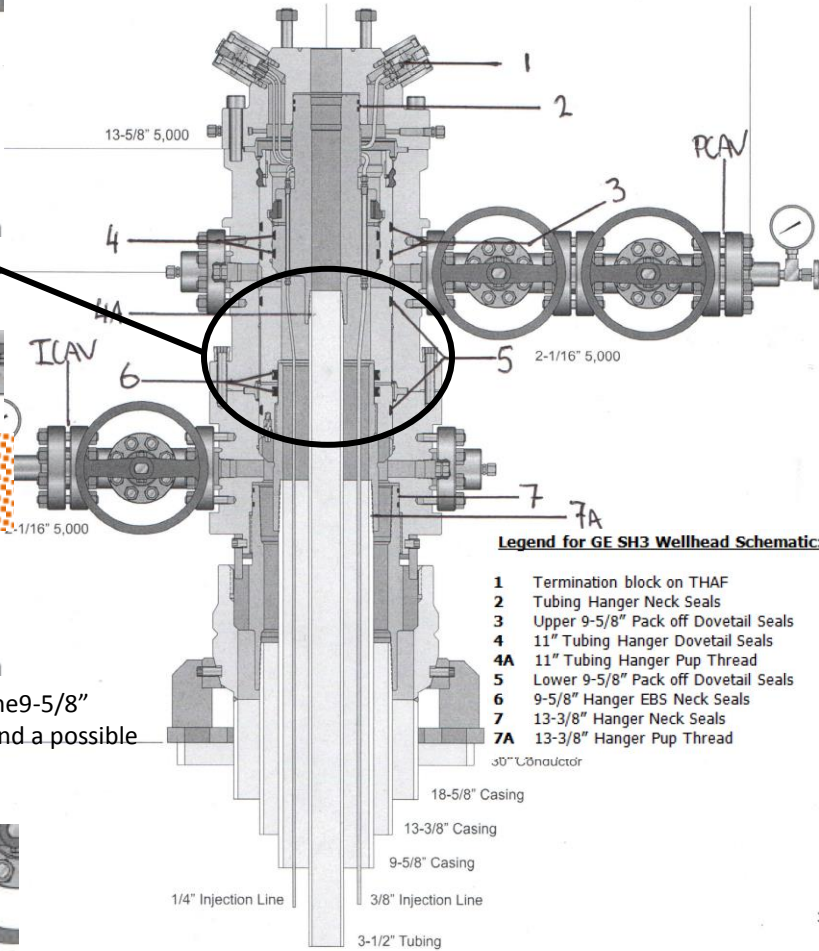


Inject light Oil or test fluid through 1 of 2 ports at the 9-5/8" Wellhead Spool. This will confirm communication and a possible PBU or size of the leak path.



Inject 2Litres of MS-Sealant O2 through 1 of 2 ports at the 9-5/8" Wellhead Spool.

Monitor sealant returns to ensure that there are no oil or air returns  
Close port 2 and continue to inject sealant till there is a PBU.  
Hold until cured. (leave a sample at the wellhead).



**Legend for GE SH3 Wellhead Schematic:**

- 1 Termination block on THAF
- 2 Tubing Hanger Neck Seals
- 3 Upper 9-5/8" Pack off Dovetail Seals
- 4 11" Tubing Hanger Dovetail Seals
- 4A 11" Tubing Hanger Pup Thread
- 5 Lower 9-5/8" Pack off Dovetail Seals
- 6 9-5/8" Hanger EBS Neck Seals
- 7 13-3/8" Hanger Neck Seals
- 7A 13-3/8" Hanger Pup Thread

### Wellhead

**Note: Inflow test only.**  
**Do not pressure test at the injection fittings as this may disturb the seal structure**