

Accumulator Function Test

TO CHECK THE USABLE FLUID STORED IN THE ACCUMULATOR BOTTLES ON THE ACCUMULATOR (O.O. #2 section III.A.2.c.i. or ii or iii)

1. Make sure all rams and annular are open and if applicable HCR is closed.
2. Ensure accumulator is pumped up to working pressure! (Shut off all pumps)
3. Open HCR Valve. (If applicable)
4. Close annular.
5. Close **all** pipe rams.
6. Open one set of the pipe rams to simulate closing the blind ram.
7. If you have a 3 ram stack open the annular to achieve the 50±% safety factor for 5M and greater systems).
8. Accumulator pressure should be 200 psi over **desired** precharge pressure, (Accumulator working pressure {1500 psi = 750 **desired** psi}{2000 and 3000 psi = 1000 **desired** psi}).

Record the remaining pressure _____ **psi.**

If annular is closed, open it at this time and close HCR.

TO CHECK THE CAPACITY OF THE ACCUMULATOR PUMPS (O.O. #2 section III.A.2.f.)

Shut the accumulator bottles or spherical, (isolate them from the pumps & manifold)

open the bleed off valve to the tank,(manifold psi should go to 0 psi) **close bleed valve.**

NOTE: Make sure that the HCR is fully closed and the annular is fully open prior to going through the next steps:

1. Open the HCR valve handle, (if applicable).
2. Close annular valve handle.
3. With **pumps** only, time how long it takes to regain manifold pressure to 200 psi over **desired** precharge pressure! (Accumulator working pressure {1500 psi = 750 **desired** psi}{2000 and 3000 psi = 1000 **desired** psi}).

Record elapsed time _____ . (2 minutes or less)

TO CHECK THE PRECHARGE ON BOTTLES OR SPHERICAL (O.O. #2 section III.A.2.d.)

1. Open bottles back up to the manifold (pressure should be above the **desired** precharge pressure, {1500 psi = 750 **desired** psi}{2000 and 3000 psi = 1000 **desired** psi}) may need to use pumps to pressure back up.
2. With power to pumps shut off open bleed line to the tank.
3. Watch and record where the pressure drops, (**accumulator** psi).

Record the pressure drop _____ **psi.**

If pressure drops below MINIMUM precharge, (Accumulator working pressure {1500 psi = 700 min.}{2000 and 3000psi = 900 psi min.}) each bottle shall be independently checked with a gauge.