Top Hat Flow Lower Limit

Flow Out Skirt Always Positive

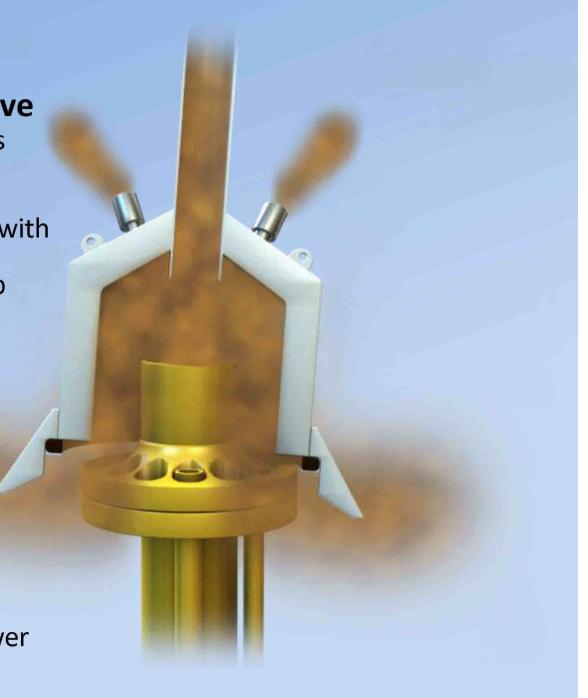
- Prevents fouling with hydrates
- Establishes absolute limit on internal pressure
- Flow out vents >18,000 bopd with lower pressure
- Assuming lower pressure drop than actual = lower rates

Calculating Lower Limit

- Assume flow out skirt = 0
- Account for collection
 ~25,000 bopd near last day
- Lower bound = 43,000 bopd

Flow decreasing with time

 Last day of Top Hat can be lower bound on flow for all days



TREX-011452, 130712 D-21109