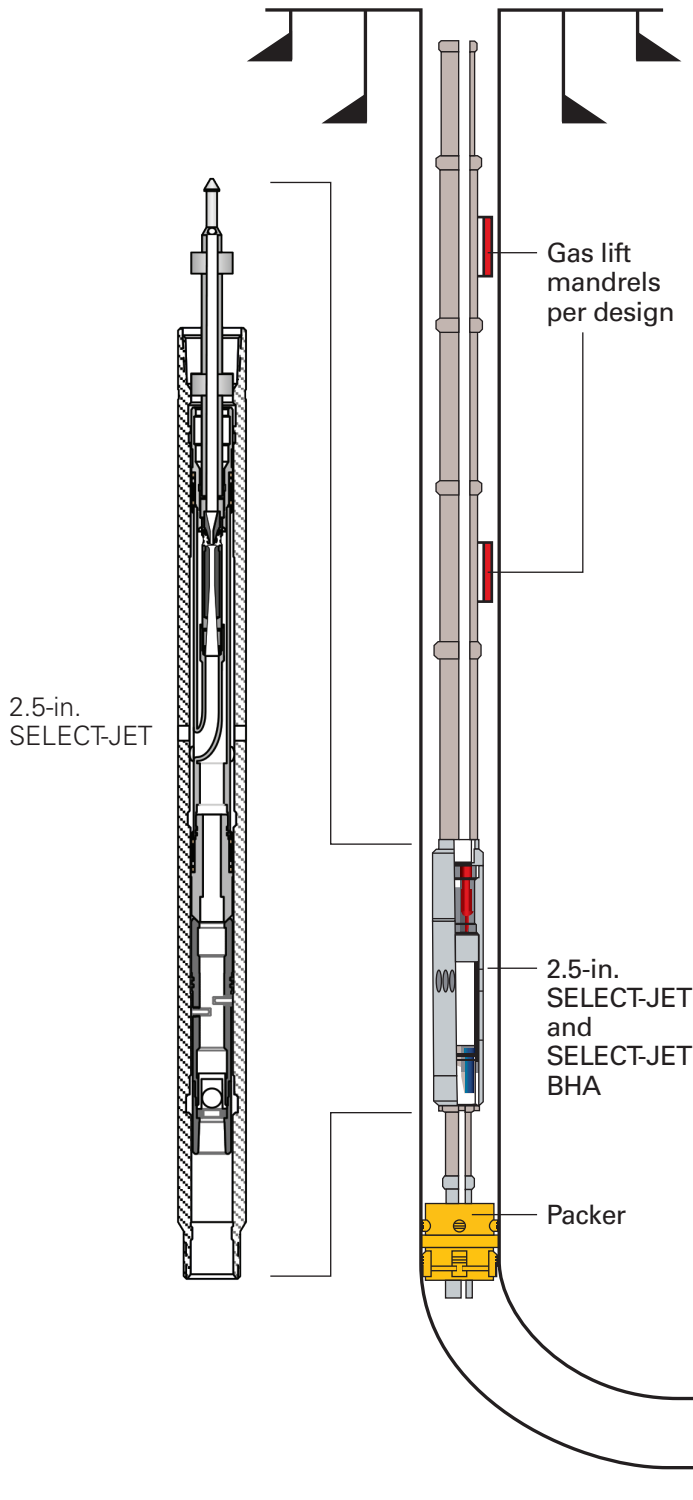


Hydraulic Jet Pump/Gas Lift Completion



A GR Energy Services hydraulic jet pump/gas lift completion delivers three key advantages to operators seeking a high-performance alternative: sliding sleeves are not required, seal leakage is eliminated, and well interventions are not required to install gas lift valves after cleanup.

There are eight steps required to implement this cost-saving solution:

- 1 The gas lift mandrels and hydraulic jet pump (HJP) bottomhole assembly (BHA) are run in hole above a packer.
- 2 The well is allowed to flow back naturally until loaded up. (An isolation sleeve can be installed in the BHA if required.)
- 3 When the well loads up, the isolation sleeve is removed via wireline.
- 4 The standing valve and HJP are pumped into the well.
- 5 Jet pump operations begin, and solids are unloaded and cleaned up until the gas/liquid ratio increases.
- 6 The HJP and standing valve are retrieved via wireline.
- 7 The isolation sleeve is set in the BHA via wireline.
- 8 Gas lift operations are started up.

Flex Flow is a mark of GR Energy Services.