This method of deep lift utilizes a crossover flow adapter and a unique mini wellbore below the packer. This assembly will facilitate the deepest point of gas injection without applying additional back pressure on the formation. A typical installation might have 2 3/8" tubing above the packer, a crossover flow adapter with 2 7/8" tail pipe below the packer and a 1" or 1 1/4" internal injection string inside the tail pipe. Able to accommodate most wellbore characteristics, the Dip Tube installation is an efficient means of lowering the flowing bottom hole pressure beyond what is capable with conventional gas lift methods.
How it Works:

- Compressed gas travels through the annulus, through the crossover flow adapter and into the 1" injection string.
- The gas then exits a gas lift valve and mixes with the produced fluid and gas in the 2 7/8" x 1" annulus.
- The fluid and gas flow up through the crossover flow adapter into the production tubing to the surface.
- Injection gas pressure is contained in the injection string, isolating it from the perforated interval.

Typical Dip Tube Applications:

- Wells with low reservoir pressure, where it is important to isolate gas lift pressure from the perforated intervals.
- Ability to manage large casing wellbores in perforations with lesser amounts of injection gas volumes and pressures.

Apergy – Gas Lift offers several advanced methods of gas lift designed to improve recovery from deep vertical wells and long horizontals with multiple zones. These include Annular Bypass Assembly (ABA), Enhanced Annular Velocity (EAV), Dip Tube, and the patented Annular Velocity Enhancement (AVE).

There are a number of variables to consider when evaluating the best solution for your specific application, including gas rates, liquid production and other well characteristics. Backed by more than 30 years of gas lift expertise, our trained production experts can help you select a gas lift system specifically for your needs.

For more information, please contact your local Apergy – Gas Lift sales and service representative or visit us online at www.apergyals.com.