When PVT measurements are not feasible or practical due to time and cost constraints, PVT simulation is frequently used to fill the gap. Simulated PVT tests rely on well-established equation of state to model reservoir fluids and can be a cost-effective, efficient way to estimate reservoir fluid composition. Costing less than 10% of a physical PVT analysis, a simulated PVT analysis can be performed in less than two weeks.

The process begins with the collection of pressurized gas and liquid samples from the first stage of separation, along with the required production data. Extended compositional analyses are performed in the laboratory, and the production and analytical data is input into a PVT simulation program for data modeling at the desired conditions. A variety of reporting options are available, including:

- Constant mass expansion (CME)
- Constant volume depletion (CVD)
- Differential liberation (DL)
- Separator tests
- Other PVT reports

SPL recommends the use of simulated PVT data for regulatory well classification and to aid in the design of production equipment and reservoir management.

For more information on how you can save time and revenue by utilizing simulated PVT analysis, contact our technical experts today at 877-775-5227, or visit www.spl-inc.com to learn more.