

Spartan Energy's Joule Thompson "JT" Plant is a self-refrigeration process that uses a drop in gas pressure to reduce the temperature of the gas. This causes heavy hydrocarbons to condense out of the gas stream. JT plants are used to reduce gas heating value to meet pipeline specifications and remove heavier hydrocarbons for sale separate from the gas stream. Recovered liquids are typically either stored in a pressurized tank onsite or shipped on a liquids pipeline.

Spartan Energy

Joule Thompson "JT" Plant

Overview

- Our JT skids provide hydrocarbon dew point control at or near the wellhead, enabling customers to **meet pipeline specifications and recover hydrocarbon liquids**.
- Skid mounted for rapid delivery and redeployment.
- Gas/gas and gas/liquid heat exchange, ensuring maximum extraction of hydrocarbon liquids.
- Spartan has deep experience in providing related systems and services to meet our customers' needs.
- Stock design and components available for rapid delivery and installation. Spartan engineers can assist with sizing and selection of a JT plant to your specifications, ensuring the equipment has maximum run time.



Process Description

- Hydrocarbon dew point control systems, commonly known as JT Skids, use the Joule-Thompson effect to condense heavier hydrocarbons causing them to fall out of the gas stream.
- The JT plant consists of gas-to-gas exchanger, liquid-to-gas exchanger, JT valve, cold separator, methanol injection system and control system.
- The system uses the heat exchangers and an expansion valve to cool and reduce the pressure on the gas stream – providing an automatic refrigeration effect.

