Enerflex in action

Wapiti, Alberta, Canada

3,500 psig acid gas injection compressor and pump package

Enerflex's integrated process design achieves highest discharge pressure, to date.

Enerflex was tasked with designing and engineering an acid gas compression and pump package, with a final discharge pressure of 3,500 psig for acid gas injection.

Due to the condensing nature of acid gas at high pressures, the Enerflex engineered package included a 2,000 HP electric-drive motor — driving a six-throw, five-stage Ariel JGK frame compressor, and discharging into an on-skid 250 HP LEWA pump package. Due to the highly corrosive nature of acid gas, all piping, valves, vessels, and the cooler were built from stainless steel for durability.

Outcome

The final condensed acid gas discharges from the package and flows to an acid gas disposal well for down-hole injection. At 3,500 psig, Enerflex has achieved its highest discharge pressure — to date — for acid gas injection.

By fully integrating the design of the compression and pump package into one skid, while implementing the complex process and controls needed, Enerflex met our client's high specification requirements and expectations.