

# Emerson Daniel Compact Prover

Optimizing the Future of Oil and Gas



*Figure 2. Emerson Compact Prover.*

## Opportunity

Brief

## Brief

*December 2017 to June 2018*

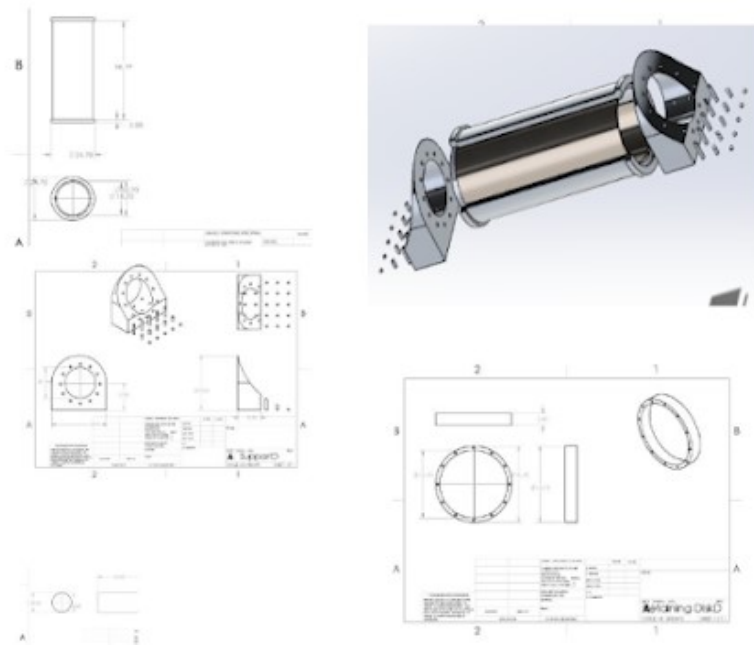
**Position:** Product Designer / Design Engineer

**Sponsor:** The Emerson Automation Company

**Industries:** Product Design, Mechanical Engineering

**Background** The Daniel Compact Prover has not undergone significant changes in many years and is in need of an update to remain competitive in the market.

**Need Statement:** Review the current compact prover and suggest ways to improve the current design to launch the next generation compact prover.



Timeframe:

*July 2018 to August 2018*

## My Contributions!

- My focus was renovating the flow tube to remove the stress rods attached to it to allow for easy maintenance
- Developed the solid works and cad geometry for the prover renovations

- Developed a support system and calculated loads and possible forces acting upon the prover and its flow tube
- Applied research from the petroleum engineering industry, modern ethics, and standards for provers

## Further details

There is a limit to how much information can be shown due to a Non Disclosure agreement. If you have any concerns, please contact me at 469-556-6068

