

The Power to Perform





Company History

- J-W Operating Company founded in 1960 by Howard Westerman Sr.
 - Family owned and operated
- Fabricating Compressor Packages since 1976
- One of the first Ariel distributors
- Leasing, Sales, Parts and Service
- JWPC is the largest privately owned Rental Fleet Operator in the in the US.
- 1 million Horsepower in domestic rental fleet





Standard Rental Fleet Packages

- Rental and sale 1976 to present
- Large Rental fleet gives feedback to package design
 - 20 year life
 - Maintenance/serviceability
 - Life cycle cost



CNG/Air Packages

- Fabricated first package in 1993
- 5000 psig working pressures
- Automatic start/stop
- Very little operator support



High Pressure EOR Packages

- Packaging units utilized for HnP/Methane Cycling since 2012
- 10,000 psig working pressures
- 50+ units sold
- Bakken, Eagle Ford, Permian & SCOOP/STACK

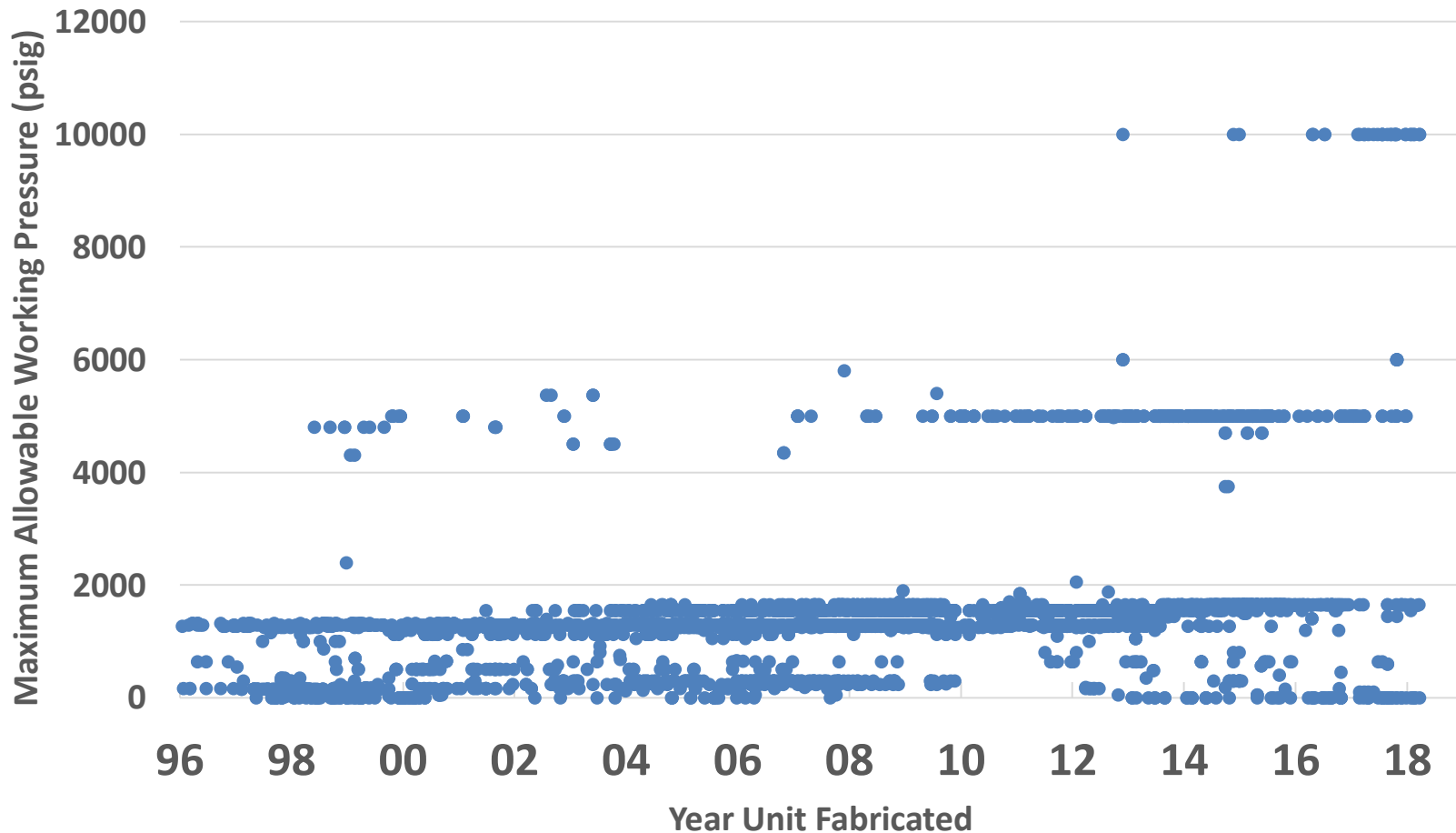






Pressure Capabilities Over Time

Discharge Pressure (MAWP) of Compressor Packages Over Time





Current Packages Designed for EOR

10,000 PSIG MAWP:

- CA-1875-3
 - Caterpillar Engine / Ariel Compressor / 1875 HP / 3 Stage
 - (10,000 psig discharge 15 MMSCFD)
 - (5000 psig discharge 20 MMSCFD)
- CUA-380-3
 - Cummins Engine / Ariel Compressor / 380HP / 3 stage
 - (10,000 psig discharge, 2 MMSCFD)
- CA-400-3
 - CAT Engine / Ariel Compressor / 400 HP / 3 Stage
 - (10,000 psig discharge, 2 MMSCFD)

5,000 PSIG MAWP:

- CA-690-2
 - Caterpillar Engine / Ariel Compressor / 690 HP / 2 Stage
 - (5,000 psig discharge, 8 MMSCFD)
- CA-145-2
 - CAT Engine / Ariel Compressor / 145HP / 2 stage
 - (5,000 psig discharge, 1 MMSCFD)





Compressor Package Design Criteria

- Safety
- Customer Specifications / Engineering Firm?
- Suction Pressure / Booster Compressor?
- Discharge Pressure
- Flow Rate
- Driver
- Gas Composition/ Liquids Management



Technical Issues To Consider

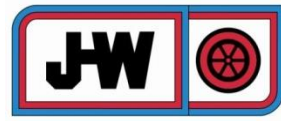
- Turndown (capacity control)
 - Suction Pressure, Discharge Pressure or Volume
- Gas Supply
 - Gas Analysis
 - CO₂ / H₂S
- Temperature Control
- Fuel Supply
- Lubricants
- Venting of Process Gas
- Environmental



Commercial Issues To Consider

- Buy vs. Rent
- Delivery Lead Time
- Shipping
- Re-assembly / Start-up & Commissioning
- Operations & Maintenance
- Training
- Spare Parts
- Market Volatility / Raw Materials





Give us a call to discuss your EOR project
Thank you!

J-W Power Company

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