

ARROW ENERGY / CPECC WDS JV

PROJECT: DAANDINE EXPANSION PROJECT CENTRAL GAS PROCESSING FACILITY PRE-COMMISSIONING / COMMISSIONING

LOCATION: DALBY, SURAT BASIN QLD

VALUE: \$10.5 MILLION INCL.

IN BRIEF

Pipemech's pre-commissioning team were tasked with delivering each system ready for start-up once mechanical completion was accepted by the client.

The scope included electrical energisation of new and existing equipment, instrumentation loop checks, PLCDCS integration, motor bumping, alignments, and first fills of all equipment/vessels, oil flushing and nitrogen/helium leak testing.

Commissioning/Start-up assistance to the Arrow Operations team was also part of the scope to bring the plant back online upon completion of the shutdown and also assist with start-up of the new TEG and 3 compressor packages and 22 wells in the gathering network.

CUSTOMER BENEFITS

Pipemech's pre-commissioning teams' prior experience in compression and plant equipment was a valuable asset to the client project team by way of population of the completions management system to ensure all testing of PLC logic, instrumentation and equipment was completed to ensure a seamless transition into commissioning.

The Pipemech pre-commissioning team also completed pre-commissioning of Arrows gathering network of 22 well heads across 3 well pads, including providing assistance to the Arrow/Clough Amec Joint Venture operations to commission and start-up the well.

TECHNICAL FEATURES

- + Cause and Effect Testing
- + Functional Instrument Loop Testing
- + Allen Bradley PLC Modbus Mapping
- + Emerson PLC and Delta V HMI Modbus Mapping
- + MCC Energisation
- + 3 x CAT 3612 Coupled with an Ariel JGC/6 4 stage reciprocating compressor commissioning, full function testing including cooler fan, alternator, MCC and PLC functional testing
- + Flare control panel commissioning
- + TEG Dehydration package commissioning
- + Equipment oil flushing
- + Plant Leak Testing using a nitrogen with a 1% helium mix
- + Motor bump testing
- + Motor coupling alignments
- + First fills of TEG glycol, compressor lubricator and crankcase oil, CAT engine coolant and greasing of all equipment.

