

## PROJECT FACT SHEET

**Customer:** Murphy Pipe & Civil

**Project:** Moranbah Pumping Station

**Project Profile:**

Nilsen successfully completed the supply, installation, testing and dry commissioning of all electrical and instrumentation equipment and related cables and connections for the Caval Ridge Pipeline Project (also known as the Western Corridor Water Pipeline) from Moranbah Pumping Station in March 2013.

Works in this remote area included:

- Isolation, disconnection and decommissioning of electrical components in existing pump station including inspection and assessment of suitability of existing main earthing arrangement.
- Supply and installation of instrumentation and field equipment for pump and pipeline control systems with all field equipment including:
  - supply and installation of level sensing equipment in the Balance Tank.
  - installation of the flow meters at the Pump Station and Caval Ridge control valves sites
- Installation and interconnection of Principal supplied MCC and PLC cabinet at the pump station site.
- Supply and installation of new sub-mains between MCC and Ergon supply transformer, including co-ordination with Ergon for the installation and commissioning of Ergon revenue meters.
- Supply and installation of emergency stop buttons, local control and power isolators for each motor/pump unit.
- Supply and installation of all power, control and instrumentation cabling including conduits, cable pits, cable tray/ladder, fasteners, fixings and cable glands/terminations.
- Supply and installation of all small power and lighting (internal and external to the buildings).
- General electrical fit-out of the pump station and electrical buildings.
- Development, programming, testing and dry commissioning of the pump station PLC.
- Supply and installation of the pump station communications cabinet and associated equipment including 20m communication mast.
- Supply and installation of balance tank RTU cabinet and associated equipment including level transmitter, level switches, solar panels and 10m communication mast.
- Supply and installation of Caval Ridge/Bufel Park control valves RTU cabinet and associated equipment including solar panels and 6m communication mast.
- Installation and connection of Caval Ridge/Bufel Park control valves.
- Development, installation, programming, testing and commissioning of the pipeline telemetry system.

