

CASE STUDY

Mangahewa D Wellsite

OUR CLIENT:	Todd Energy Limited
INDUSTRY:	Oil and Gas
VALUE:	NZ\$150K
OVERVIEW:	<p>Mangahewa D is a greenfield wellsite comprising four wells and two processing trains, each with High Integrity Pressure Protection Systems (HIPPS).</p> <p>The output of the wellsite is via two multiphase pipelines through the Mangahewa Gas Plant.</p>
ENGINEERING:	<p>ECL TÜV certified functional safety engineers utilised a Hima HIMax SIL3 rated Safety PLC and two Hima HIMatrix F35 SIL3 rated Safety PLCs to implement, test and commissioning the required functionality.</p> <p>The HIMax PLC was used for Process Safety and the two F35 PLCs were used for the processing train HIPPS.</p> <p>A Delta V DCS node was added for the wellsite from the existing McKee & Mangahewa Safety and Control Systems.</p> <p>Plant and Platform provided documentation for the general requirements of the configuration, system integration, testing and documentation for the Process Control System (PCS) and the Safety Instrumented System (SIS).</p> <p>A fully integrated Factory Acceptance Test (FAT) was completed at the ECL offices before the start of commissioning.</p> <p>The commissioning was staged as each of the four wells became available.</p> <p>ECL supplied the relevant documentation to be compliant with QHSE requirements.</p>

- Commissioning of the wellsite was completed on time, within budget, with no lost time incidents.
- The wellsite is now in full production, with all four wells available to Todd Operations.



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