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A QUANTA SERVICES COMPANY

Atlas to Reedy Creek Pipeline

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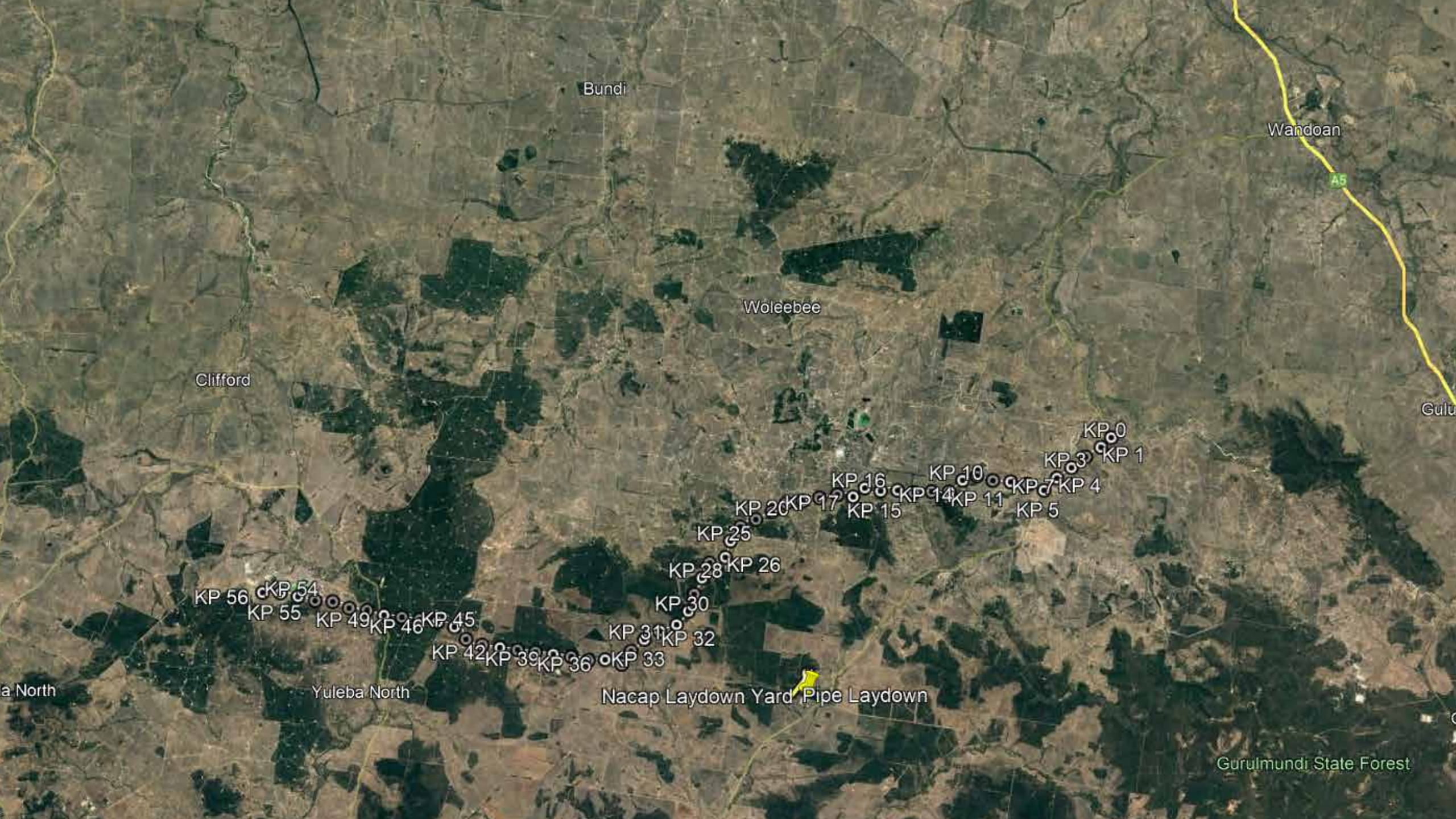
Project Overview

- The Atlas Reedy Creek Pipeline (ARCP) is a high-pressure gas pipeline that will transport sales quality gas from the proposed Senex Atlas East CPF to a custody transfer metering station located at the pipeline end of line facility (EOLF) where it connects to the APA Reedy Creek to Wallumbilla Pipeline (RCWP).
- 56.4km DN300 Class 900 Dual Layer FBE [LW:8.1, HW10.0]
- SOL and EOL Facilities
- Barred T Off Take
- Interconnect between ARCP EOLF and APA Tie In.


Bundi
Wandoan
A5
Woleebee
Clifford
KP 0
KP 1
KP 3
KP 4
KP 16
KP 10
KP 14
KP 11
KP 5
KP 17
KP 15
KP 20
KP 25
KP 26
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KP 36
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KP 42
KP 45
KP 46
KP 49
KP 54
KP 55
KP 56
Yuleba North
Nacap Laydown Yard
Pipe Laydown
Gurulmundi State Forest

Early Works

Clear and Grade Activities

- Self-performed construction fencing works
- Self-performed clear and grade and vegetation clearing
- Significant side cut for first 20km of project – two tone RoW
- Two (2) Cultural Heritage groups to work with [Mandandanji and Iman]
- Significant dense vegetation to be removed during last 25km of RoW.

String and Bend

- 622 field bends
- 81 induction bends
- Bend every 80m
- 2 bending crews
- Up to six(6) pipe trucks used
- Achieved production up to 3km per day.

Welding

- Bead and Hot pass tack rigs
- Single welders for fill and cap passes
- Delay in fill and cap pass - qualified 5-day delay
- Production of up to **150 joints per day**
- Repair rate **1.3%**.

Field Joint Coating

- High Build Epoxy
- Three (3) methods of application:
  - Fully automatic
  - Semi automatic
  - Hand applied
- Use of induction heating coil
- Repair rate of 3%
- Production – up to 200jts/day

Trenching

- Three (3) rock saws
- One (1) bucket wheel
- Production up to 3km/day
- Fauna handlers inspecting the trench daily.

Lower In and Backfill

- Use of pipelayers for mainline lower in
- Two (2) padders used
- Production up to **3km per day [8 strings]**
- Small string lengths due to ROW impacts [bends, foreign services].

Reinstatement

- Topsoil spreading
- Mulching of vegetation
- Seeding of RoW
- Install of glider poles complete with camera
- Weed hygiene/washdown requirements.

Special Crossings

- Third Party Assets [QGC, APLNG, Jemena, Telstra etc.]
- Road crossings –open cut and trenchless
- Watercourse crossings
- SIMOPS.

Hydrostatic Testing & Caliper Survey

- Two (2) Test Sections
- Turkey nest constructed between TS1 & TS2
- Self-performing clean and gauge and testing
- Caliper tool inspection – self-performed
- Self-performed all pre-tests.

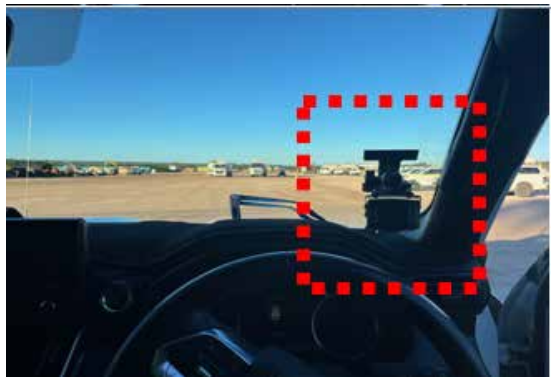
Trenchless Crossings

- Two (2) HDDs - 350m and 330m
- Three (3) Auger Bore Crossings – Sealed roads
  - Steel casing used.
  - Nacap installed pipe through casing.

EOL Facilities

- Offsite fabrication of spools
- Offsite painting of spools
- Offsite coating of belowground vent line and interconnect pipeline
- Self-performed facility pad earthworks
- Subcontractor performing piling – steel driven piles with steel plate
- Self-performed SMP installation.
- E&I works subcontracted
- Self-performed facility hydro
- Self-performed fencing
- PWHT.

Fatigue Detection Distraction System [FDDS]



- FDDS devices installed in all vehicles – light and heavy
- First Nacap project all vehicles fitted with FDDS
- Prevented potential fatigue related vehicle incidents

Project Challenges

- Short mobilisation period
- Mobilisation of direct workforce – concurrent large pipeline projects under construction
- Short string lengths due to RoW impacts [foreign services/bends]
- Accommodation Constraints – utilise commercial accommodation
- Logistics – Travel In / Out
- Wet weather
- Third Parties
- Weed Hygiene [15 properties].

Legacy

- Employed local personnel
- Had great relationships with local suppliers and providers
- Sponsored Wandoan Football Club
- Landowners are all extremely happy with the end result.

Questions?