

# A CASE STUDY



**Client:** BHP

**Project Name:** Olympic Dam Bore field Asset Condition Assessment

**Location:** Roxby Downs, SA

## Scope

Health check of BHP's borefield assets including:

- Undertaking a condition assessment (including asset condition grade, and relevant comments, theoretical and estimated life expectancy and attribute data)
  - ◊ Facilities inspected included nine bores, four water pump stations and thirty valve chambers along 220km of pipeline
- Aerial photogrammetry of pump stations and 3D laser scan of valve chambers
- Photo identification for each asset and PID review/modification as required
- Assets locality. GIS information accurate to less than one metre was collected for air valves, scour valves, cathodic protection and not in use assets.

## Mission

Remote work is our specialty. With a fully equipped 4WD vehicles to handle all kind of terrain while also meeting clients specifications Symbiosis Australia were well equipped for the two week long assessment. On board was the DJI Inspire 2 RPA, Leica BLK360 laser scanner and Leica GIS Smart Antenna and Toughpad.

The Symbiosis team with a combined 30 years experience in project management, condition assessment and remote piloting aircraft knowledge gathered all the information and data needed for the clients requirements.

- SHOW ME THE DATA
- ⇒ Over 8400 photos (approximately 90GB)
  - ⇒ 15 valve chamber laser scans (approximately 100GB)
  - ⇒ 6 sites with photogrammetry (approximately 30GB)