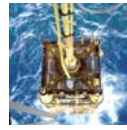




**ADVANCED WELL TECHNOLOGIES**



- ▶ *Field Development*
- ▶ ***Drilling Engineering***
- ▶ *Production Technology*
- ▶ *Completions Engineering*
- ▶ *Flow Assurance*
  - ▶ *Well Test Engineering*
  - ▶ *Reservoir Engineering*
  - ▶ *Subsea Engineering*
  - ▶ *Well Intervention*

**INNOVATIVE FIELD DEVELOPMENT  
AND REFURBISHMENT SOLUTIONS**



## Introduction

AWT provides a broad spread of Drilling Management services ranging from conceptual well designs and budgetary cost estimates through to management of entire drilling projects. Our key personnel have extensive experience in exploration, appraisal and development drilling operations throughout the world on both land and offshore sites.

AWT's experience includes operations in oil and gas programmes in HPHT wells, large bore gas production, gas and water disposal wells and deep water operations.

Our aim is to deliver exceptional performance through:

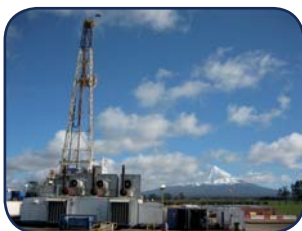
- No HS&E incidents
- Delivery of wells on schedule
- Excellence in cost control

AWT's widely recognised drilling management services include:

## Well Planning

Conceptual design, simulation and detailed engineering of vertical, deviated and horizontal drilling programs. Well designs focus on life of asset integrity from low risk onshore appraisal drilling to hazardous remote deep water exploration and production wells. AWT also specialises in innovative low cost design concepts to target small or stranded reserves.

AWT has the ability to provide all required drilling design and technical support including casing design, development of cementing requirements and mud programs, specifying and managing all directional and survey work, and reservoir sample collection.



Onshore drilling,  
Taranaki Basin, NZ



Onshore drilling  
Perth Basin, Australia

## Procurement

AWT's independent tendering process draws on an extensive range and in-depth knowledge of recognised vendors to ensure our clients receive fit-for-purpose drill rig leases and associated third-party services within budgetary parameters.



Offshore drilling, Taranaki Basin, New Zealand

## Regulatory Compliance

Members of the AWT team have developed strong working relationships with regulatory bodies and have assisted operators in obtaining government approvals for a number of major Australian oil and gas projects during the last decade. The company's engineering hub also includes a range of nationalities recruited from around the globe; bringing valuable experience in international standards from the world's major oil and gas regions.

## On-Site Drilling Supervision

AWT's experienced team provides well site drilling supervision with a recognised track record of good HSE management and on-time or early delivery.

AWT has regionally mobile Drilling Engineering and Operation Teams located in Perth, Australia and New Plymouth, New Zealand.

### **Logistics Support**

Effective regional logistics support for both remote onshore and offshore projects. Domestic and international support for equipment freight and well site delivery covering jack-up, semi-submersible and drillships.

AWT has also developed a detailed regional understanding of importation and customs regulations for both rudimentary and technically advanced production and drilling equipment.

### **Cost Accounting**

AWT project planners and cost controllers have a wealth of local and drilling project specific experience.

Our team has prepared numerous Cost Control Procedures (CCPs) to describe the processes and responsibilities in respect to project cost control activities against cost forecasts. Our CCPs are based around the Project Execution Plan which allows the costs to be broken down into manageable packages for control purposes, and will allow forecast updates and commitment control. AWT Cost Control Procedures are also designed to effectively interface with the overall project cost control system.

Our project planners and cost engineers can gather contractors cost reports, monitor their performance and expenditure and prepare the integrated project cost report, which will include review and verification of third-party invoices.

### **Rig Inspections**

AWT customises inspections to assist the client in determining whether their current procedures and equipment meet industry standards and conform to any applicable Statutory or Classification requirements. Our comprehensive equipment checklists assist to highlight any items which may require attention.

A typical rig inspection would cover an independent comprehensive technical survey of equipment and systems on the rig, accommodation and camp. It will include all critical safety elements of the installation and all critical equipment that could be expected to cause HSE incidents or operational downtime when a Mechanical or Electrical failure of that equipment occurs.

### **Advanced Drilling Techniques**

AWT is a regional forerunner in the areas of Underbalanced Drilling, Coil Tubing Drilling and Through Tubing Rotary Drilling.

These advanced techniques are increasingly recognised for their flexibility in primary and sidetrack drilling and cost/time effectiveness as compared to conventional rig based programs.

AWT is currently pioneering execution of an underbalanced coiled tubing drilling program for Western Australia's first gas storage project.



*Innovative coiled tubing drilling, Cooper Basin, South Australia*



## *Recent Experience*

Examples of Drilling Engineering Projects handled by AWT are featured below.

Client	Project Name	Description
Galoc Production Company	Galoc	Offshore 2 subsea well development project Philippines Total drilling project management including Engineering, Procurement and Construction Management
Cape Energy	Golden Beach	Onshore to offshore 2 well development project Victoria 1:9 step out ERD wells
Australian Pipeline Trust	Mondarra	Onshore 1 well underbalanced gas expansion project Total drilling project management including Engineering, Procurement and Construction Management
Todd Energy	Taranaki Basin	Multi-well exploration/appraisal program
TAG Oil	Taranaki Basin	Complete drilling management of onshore New Zealand well, current planning for several additional exploration wells
Tap Oil	Taranaki Basin	Onshore New Zealand 4 well exploration programme Total drilling project management including well testing and completion



### **ADVANCED WELL TECHNOLOGIES PTY LTD**

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**Malaysia**

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**India**

**UK**

**Kuwait**