



## Job Description – Drilling Engineer

*This job description is provided as a guide to the tasks, responsibilities and qualifications for this role. Specific projects may require variation to this description.*

Approved by T Brand (MD)  
Date: 27-08-07

### **Major Function and Purpose**

The Drilling Engineer assists the Senior Drilling Engineer with all aspects of well planning, especially casing design, drilling bit and bottom hole assembly design and hydraulics.

The Drilling Engineer may be required to work as the Offshore Drilling and Logistics Engineer and (progressively) as a Night Drilling Supervisor as part of their development.

### **Major Tasks and Responsibilities**

- Operations*
- Design drilling programs in accordance with industry recognised technical criteria and applicable drilling regulations, to achieve exploration objectives in a safe and cost effective manner.
  - Design safe and economic casing strings.
  - Design wellbore hydraulics and BHAs to maximise bit life and drilling rate.
  - Ensure procedures are technically valid and applicable to the specific well conditions.
  - Monitor and evaluate well conditions in conjunction with the Senior Drilling Engineer.
  - Initiate other management systems or procedures as required during the program.
  - Communicate with Service Contractors about technical issues and any changes in the drilling program.
  - Provide offshore drilling engineering support.
- Reporting*
- Ensure all routine drilling and cost control reports are accurate, complete and timely.
- HSE*
- Assist the Drilling Superintendent/ Senior Drilling Engineer to supervise the HSE system.
  - Act as a member of the Emergency Response Group, supporting the Senior Drilling Engineer in the event of an emergency response situation.
  - Observe all company health, safety and environmental instructions, act in a safe manner and avoid unnecessary risks to themselves and others.
  - Immediately report any unsafe conditions or activities, dangerous occurrences or injuries in the workplace.
  - Not interfere with, remove, displace or make ineffective any safeguard, safety device, equipment or appliance provided for health, safety and environmental purposes – except for during an approved maintenance or repair procedure.

### **Qualifications and Experience**

- Required*
- Engineering or science degree from a recognised university.
  - Minimum of 5 years oil and gas drilling experience with an operating company, with a combination of onshore and offshore floating drilling an advantage.
  - Industry training in drilling technology and HSE.
  - Current certification in well control and HUET.
  - Demonstrated communication skills, technical maturity and flexibility to adjust to change.
  - Good data management and computer literacy.
- Desirable*
- Specific petroleum engineering qualifications.
  - Experience in horizontal and underbalanced drilling.
  - Recent exposure to Australian/New Zealand oil and gas operations.