



## BASIC ROLE DETAILS

**TITLE:** Petroleum Engineer

**REGION:** Alkmaar, The Netherlands

**DEPARTMENT:** Subsurface team

**MANAGER:** Subsurface Manager

**ROLES REPORTING INTO THE ROLE:** n.a.

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## GENERAL

TAQA ranks as one of the largest energy and water companies in the world. Our purpose: “powering a thriving future by efficiently providing sustainable and reliable energy and water to unleash the unlimited potential of people and places”.

With over 30 nationalities across the global organisation, we are committed to promoting a corporate culture where everyone is valued and able to play their part in building our future success.

In the Netherlands, we focus on the on- and offshore production of oil and gas as well as the operation of two underground gas storage facilities. The latter are strategic assets in the provision of reliable gas in the Netherlands. Their importance will only increase in the coming years as the greater dependence on gas imports will mean domestic storage becomes key to maintaining security of supply.

The energy landscape in the Netherlands is changing, and TAQA is supporting the energy transition in two key ways: we are contributing to continuity of gas supply in the short-term as the transition agenda moves forward. We are also participating in large-scale sustainability developments such as hydrogen and green gas expertise center Investa and Porthos, a CO<sub>2</sub> capture and storage project.

You will be given a lot of responsibility when you join the company, which you are expected to take. And you'll get the space you need to do your job. Individual and team contributions really make a difference at TAQA.

Our success as a company depends on the engagement and passion of our people. Although our organization is large and global, locally we work with short reporting lines in an open and informal culture. We strive for diversity when attracting talent to our organisation and give your personal development our full attention.

***In all we do, safety is our first priority. The safety and care of our people, as well as our surroundings and the environment.***

## ROLES AND RESPONSIBILITIES

### BASIC PURPOSE OF THE ROLE

The Petroleum Engineer will work with the subsurface team and is responsible for optimal performance from the upstream assets (Rijn Oil, P15/P18 gas and onshore gas) and the gas storage assets (Bergermeer and PGI), as well as from future developments. Their focus is on production optimization through knowledge of processing technologies and systems, wellbore intervention techniques and well completion operations. They monitor the complete well stock of oil and gas production wells, gas injection and water injection wells. This also includes the commissioning and start-up of new wells.

The Petroleum Engineer will work in close cooperation with the reservoir engineers to select the best intervention candidates, determine the options, and assess the production impact of changes to operating conditions or from well interventions over the life of the well. He/she will be the liaison with the Drilling&Wells team and the Operations Department during the preparation and execution of these activities.

The Petroleum Engineer unique areas of expertise cover:

- Modelling and optimizing well inflow and outflow performance
- Well interventions and production logging
- Conceptual well and completion design and well/reservoir interface (including sand management)
- Well, Reservoir and Facility Management (including production system modelling and optimization)
- Well Integrity Management

### KEY RESPONSIBILITIES

- Maximize value for the Upstream Rijn Oil, P15-P18 hub and the Bergen Concession gas fields as well as Gas Storage Bergermeer / PGI midstream assets through Petroleum Engineering activities.
- Monitor production and injection well performance. Identify, initiate, develop and prepare production optimization activities and well interventions (e.g. work overs, rig-less interventions, foam injection, water wash etc.) and write the Well intervention Request.
- Lead the weekly production optimization meetings with operations and engineering teams and supply instruction for operation of wells (WESP). Perform integrated production system capacity setting and contribute to production loss reporting process.
- Understand, analyze, and describe the physical constraints applicable to well/reservoir/field production (and injection) to predict well behavior. E.g. sand, water and gas production, scaling potential, corrosion potential and erosion management system.
- Perform integrated production system modelling for identification of production enhancement opportunities. Generate well performance curves for input to simulation models.
- Review existing and new well designs and work over programs from the Well Engineering Department. Field witness during execution of well intervention programs.
- Monitor well Integrity and provide input for the WIMS.
- Deliver the quarterly gas production nominations to the commercial team.
- Prepare and deliver presentations for technical meetings with joint venture partners.
- Maintain and perform the following systems and plans:
  - Sand Erosion Management plan (SEMP)

- Well history files
- Reservoir and Wells module in MES (Gas Storage Facilities Automation)
- Offshore metering and allocation system (bi-yearly input for DMGas)
- Water injection reporting to relevant authorities

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### QUALIFICATIONS, EXPERIENCES AND SKILLS

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#### QUALIFICATIONS / TRAINING

##### Essential

- MSc. Degree in Physics or Engineering. (Msc in Petroleum Engineering is an advantage)

#### EXPERIENCE/KNOWLEDGE/SKILLS

##### Essential

- Minimum of 5 years working experience as a Petroleum Engineer, in an operator environment
- Demonstrated experience with planning and execution of well interventions including cased hole logging.
- Knowledge of well construction and design and well integrity management
- Experience with production operations. Thorough knowledge of production technology fundamentals and ability to apply appropriate techniques.
- Skilled nodal analysis software (preferably Petex suite MBAL/Prosper/GAP) and PI Process book.
- Basic knowledge of production chemistry, including corrosion and scaling potential
- Knowledge of production metering systems,
- Skilled in MS Excel, Word and PowerPoint
- Awareness of other subsurface disciplines e.g. Reservoir Engineering and Petrophysics
- Up to date knowledge of technological developments, industry initiatives, etc.
- Self-starter with a high sense of responsibility and professional credibility. Strong organizational, analytical as well as social and communication skills.
- Safety and performance driven attitude
- Fluent in English

##### Preferred

- Experience working on mature assets or natural gas storage assets
- Experience in the Southern North Sea or Dutch onshore fields
- Experience with Risk assessments, HAZOP, HAZID
- Proficiency in Dutch language

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### INTERACTIONS

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#### INTERNAL INTERACTIONS

- Reporting to Subsurface Manager

#### EXTERNAL INTERACTIONS

- Regulatory bodies e.g. SodM, MEA
- Contractors and Vendors
- Industry peers
- Joint Venture representatives/Other operator representatives

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### DETAILS

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**ESTIMATED START DATE:** as soon as possible

**WORKING HOURS:** 38,75 hours/week

**DURATION:** year-contract, option to extend