

MACPHERSON

POWERING THE FUTURE

Reservoir Engineer Job Description

- Optimize and manage the sub-surface development of Round Mountain Oilfield in Bakersfield, CA.
- Identify complex reservoir problems and evaluate plans to implement solutions.
- Direct and supervise other professionals to ensure projects are carried out effectively.
- Hire, assign, and supervise staff to ensure tasks are completed prior to project deadline.
- Manage consultants who provide expertise to the organization in resource, development and design.
- Develop and implement policies, standards and procedures for engineering work.
- Review, recommend and approve contracts.
- Provide technical and economic analysis for new oilfield development projects
- In consultation with other Managers, consider the relative costs and benefits of planned projects
- Prepare presentations with development plans and economic forecasts for upper management.
- Appraise renewable and conventional energy projects for continued growth of the organization

Analyze technical data and develop new methods to enhance oil and gas recovery. Use software tools to analyze well test data and recommend methods to improve existing oil production. Work with computer simulation models to evaluate impact of reservoir heterogeneity on oil recovery. Work with reservoir mapping software IHS Kingdom for geologic interpretation, volumetric analysis, and development planning purposes. Monitor the performance of the oilfield using Oilfield Manager (OFM) Surveillance System Software. Perform company Reserve Analysis using PhDWin and assist in generating an audited third-party reserve report. Develop new methods for rapid evaluation of well production data and selection of candidate wells for re-stimulation. Perform pressure transient analysis and interpretation of interference tests which are key aspects in understanding the dynamics of oil and gas fields. Working with Asset Development team: Generate and examine maps of subsurface oil and gas reservoir locations to recommend placement of wells and design a development plan for maximizing oil and gas recovery. In addition, forecasts the production of oil and gas using decline curve analysis. Work closely with the production and facilities team and provide them with reliable production forecasts which help them design facilities to treat produced fluids. Direct involvement in designing any Enhanced Oil Recovery (EOR) projects.

Working with Upper Management team: Work closely with the upper management team and assist them with technical and economic analysis and appraisal of prospective oilfields. In addition, assist upper management in preparing presentations by providing development plans and economic forecasts for various ongoing projects as needed.

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Qualifications:

- BS Degree in Petroleum Engineering or related field
- MS Degree preferred but not required
- Must have strong work ethic.
- Must be well organized and a self-starter.
- Must be able to follow standard operating procedures.
- Must have the ability to communicate effectively verbally and in writing.
- Attention to detail, professional attitude, reliable.

Physical Requirements:

- Prolonged periods sitting at a desk and working on a computer.
- Must be able to lift up to 15 pounds at times.