



SAIKIRAN POCHAMPALLY

Geomodeler/Reservoir Simulation Engineer
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EDUCATION

B.S., Petroleum Engineering, 2007, Indian School of Mines University, INDIA
M.S., Petroleum Engineering, 2012, University of Tulsa, OK

RELEVANT EXPERIENCE

Geomodeler/Reservoir Simulation Engineer Kelkar and Associates, Inc., Tulsa, OK, USA, 2011-Present

Mr. Pochampally is a multi-talent Petroleum Engineer with the specialization in Geomodeling and Reservoir Simulation Engineer. He is proficient in using commercial software such as Petrel and ECLIPSE for building and executing static and dynamic models. He is also capable in developing new software using C++ and C# language, including building Petrel plug-in using OCEAN platform. Reservoir studies that have been completed includes :

- Automatic/assisted history matching for High Pressure High Temperature (HPHT) Naturally Fractured Reservoir (Keshen-8 Field) operated by China National Petroleum Corp. (CNPC) with Dual Porosity system utilizing ECLIPSE, Global Software (Genetic Algorithm for reaching global match), and Destiny Software (streamline technique for reaching local match).
- Development of new Petrel Plug-in (CONNECT-WellOpt). Responsible for implementing new algorithm of Fast Marching Method (FMM) and conducted technical testing of the software. The plug-in is developed using C# language within the OCEAN platform.
- Reservoir Modeling and Flow Simulation (History Matching and Prediction) for Cheleken Contract Area (Lam-West and Zhdanov Fields) of Dragon Oil (Turkmenistan) Ltd. Responsible for upscaling and preparing the dynamic model, History Matching and Prediction run (Primary Depletion, Artificial Lift and Water Flooding Scenarios).
- Built static model and conducted History Matching of Erb-West field, Sabah, of PETRONAS-Carigali. The reservoir is a faulted clastic oil rim with huge gas cap.
- Built a static model, conducted History Matching and prepared water flooding scenarios for Langdon field, of Unit Corporation, Tulsa.
- Develop Static and Dynamic Reservoir Models for Gulf of Mexico Field. The task includes property modeling with flow simulation in compositional model.
- Perform Upscaling Analysis for East Rincon Sector Model of OXY Petroleum.
- Provide Technical Support for Plug-in Product (CONNECT-DynaRank, UpGrid and TransMod)
- Provide assistance in preparing material for technical training.
- Responsible for maintenance of company's website

Reservoir Engineer, Reliance Industries Ltd., Mumbai – India, 2007 - 2010

- Worked as conventional Reservoir Engineer. Responsibility includes Analysis of SCAL data for six wells of KG-D6, Pre-Production Calculation of Reservoir Parameters KH, Performed Pressure Build-Up Analysis, Drafted Initial Development Plan of four satellite fields, Monitored three well clean up operation on Deep Water Frontier
- Worked with G&G Team for Integrated Reservoir Modeling Study. Used Geostatistics for facies and property modeling.
- Performed History Matching of Complex Channel-Levee Structure of Gas Field.
- Performed integration of production and reservoir systems of KG-D6 gas field using REO and ECLIPSE.

Research Assistant, The Uni. Of Tulsa's Center for Reservoir Studies, Tulsa, OK, USA, 2010-Present

- Performed Research for Haynesville Shale. Developed computer program to model hydraulic fracture system around horizontal well.

AWARDS

Graduate Award for Master's Program at the The University of Tulsa, OK, USA

Secured All-India Top 3172 Rank out of 250,000 competitors in India's toughest Engineering Exam, IIT-JEE 2003.

Received Gold Medal and Scholarship for this achievement from Andhra Pradesh State government

Won the drawing competition on "Clean City – Green City" held at Hyderabad City Level

PUBLICATIONS

Kelkar, M. G., **Pochampally, S.**, Bahar, A., and Sharifi, M., "Dynamic vs. Static Ranking: Comparison and Contrast in Application to Geo-cellular Models", *SPE 170682, SPE ATCE held in Amsterdam, The Netherlands, 27-29 Oct 2014*
Pochampally, S., "In-fill Drilling Potential in Haynesville Shale-flow Simulation Study", MS Thesis, The University of Tulsa, 2012