RESERVOIR FLUID PROPERTIES: PREPARATION FOR RESERVOIR

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MAESTRO CONSULTANTS

TRAINING TITLE

RESERVOIR FLUID PROPERTIES: PREPARATION FOR RESERVOIR

VENUE

Dubai, UAE

DURATION

5 Days

DATES

09 - 13 January 2022

PRICE

US$4,000 per attendee including training material/handouts, morning/afternoon coffee breaks and Lunch buffet.

TRAINING INTRODUCTION

This course goes beyond the usual description of reservoir fluid properties. The underlying purpose is to be able to prepare the most accurate possible set of values of fluid properties for use in other engineering calculations. An understanding of the advantages of the application of both laboratory data and correlations will be provided. Extensive exercises are used to illustrate the principles and to test the consistency of measured data. Accordingly, participants are encouraged to bring their own PVT laboratory data to deconstruct in class. Equations of State calculations are introduced, and a tuning exercise is conducted on commercial software.

TRAINING OBJECTIVES

- Identify the type of fluid in a particular reservoir and predict how that fluid will behave during production
- Read and QC PVT Reports
- Use laboratory data to determine values of fluid properties for use in engineering calculations, including Equation of State
- Use correlations to determine values of fluid properties in the absence of laboratory data
- Select the best available fluid property correlations for oils, gases, and oilfield waters
- Shape PVT data to get the best results out of analytical and numerical software

TRAINING AUDIENCE

Reservoir, production and facilities engineers who have a need to model the flow of oil, gas and water through reservoirs, wellbores, and surface facilities.

TRAINING OUTLINE

- Fluid fundamentals
- Dry gas models
- Brine models
- Wet gas models
- Dead oil models
- Black oil models
- Volatile oil models
- Gas condensate models
- Fluid sampling
- Laboratory tests
- Reading a PVT report
- Quality checks on a PVT report
- Corrections to laboratory data
- Equations of State
- Tuning Equations of State

TRAINING CERTIFICATE

MAESTRO CONSULTANTS Certificate of Completion for delegates who attend and complete the training course

METHODOLOGY

Our courses are highly interactive, typically taking a case study approach that we have found to be an effective method of fostering discussions and transferring knowledge. Participants will learn by active participation during the program through the use of individual exercises, questionnaires, team exercises, training videos and discussions of "real life" issues in their organizations. The material has been designed to enable delegates to apply all of the material with immediate effect back in the workplace.