Geovariances
Where no one has gone before

Geovariances Training

ASSESSING VOLUMETRICS UNCERTAINTIES WITH THE SIMULATIONS

3-day course

Geovariances offers a complete set of high quality training programs in petroleum geostatistics for beginners and experienced users.

Geovariances courses cover basic and advanced geostatistics and provide participants with plenty of hands-on practice with real oil reservoir data.

All courses are led by our highly experienced consultants.

Geovariances offers public courses around the world and throughout the year. Over the last 18 months, more than 250 trainees have participated in our training sessions.

Our consultants also provide in-house training and mentoring focused on your own needs.

Isatis, the geostatistical software solution from **Geovariances**, is regarded as the reference in petroleum geostatistics.

Leading Oil & Gas and consulting companies around the world rely on **Geovariances** and **Isatis** for genuine expertise in geostatistics.

Objective

Geostatistical simulations are recommended for the calculation of GRV, HCPV and STOIIP / GIIP, rather than using only a BTC scenario. The objective is to provide participants with a sound understanding of the main geostatistical simulation algorithms, involved when characterizing uncertainties during volumetric estimations.

Key Features

The course emphasises the optimal use of wells and seismic data for generating a distribution of expected volumes and hydrocarbon reserves.

Who should attend

Geologists and geophysicists involved in development decisions and risk analysis of reservoir volumetric and reserve evaluation. A basic understanding of geostatistics is required (variograms & kriging).

Course content

This session covers the following topics:

- Why use a geostatistical simulation method to compute hydrocarbon reserves, rather than use an interpolation method such as kriging?
- General overview of geostatistical simulation methods.
- Pros and cons of geostatistical simulation techniques: Turning Bands and Sequential Gaussian.
- Integration of Seismic data during the simulation process: External Drift Simulation and Collocated Cosimulation.
- Accounting for the uncertainty of the OW and GO contacts.
- Determination of the spill point and its effect on the reservoir closure.
- How to account for uncertainties in the reservoir size and in petrophysical properties.
- Identification of optimistic, most - likely, and pessimistic scenarios.

Prerequisites

Prior knowledge of basic geostatistic (variogram, kriging and cokriging) is recommended.

On-line registration

http://www.geovariances.com/en/oil-amp-gas-assessing-volumetric-uncertainties-with-the-simulations-co91

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