

An aerial view of an offshore oil drilling rig in the middle of the ocean. The rig is a complex structure of steel and concrete, with a central derrick and two large cranes extending outwards. The water is a deep blue, and there are other smaller vessels or support ships visible in the background. The text is overlaid on the image in a yellow, bold font.

Offshore Drilling Cost Estimation Simulation

Drilling is one of the most important steps in oil and gas industry while it ends to producing oil and gas from reservoirs. Many different parameters have effect on drilling method and its cost. The most effective parameter is location, offshore, onshore. To consider this parameter precisely, NoDoC has divided Drilling cost model to 2 different modules, Offshore Drilling and Onshore Drilling Cost Estimation Simulation.

The main parameters and factors that NoDoC cost model has considered to estimate the cost of offshore drilling are:

- **Type of Reservoir,**
- **Selected drilling technology,**
- **Output type (oil or gas or both),**
- **Drilling Rig Type,**
- **Well Depth,**
- **Drilling Speed,**
- **Well rating,**
- **Sea level,**
- **Required services,**
- **Drilling fluids,**
- **Well tools and accessories,**
- **Drilling bits**
- **Well testing,**
- **Well Completion**

Estimate the cost of drilling by:

- **Phase (conceptual, basic and detailed)**
- **By services,**
- **By sea status,**
- **By rigs, tugs, boats and vessels runtime daily rates,**
- **In summary or full detailed,**
- **By required consumables and sub-contractors,**
- **Simulate the cost by drilling technologies, rig types, well depth, ... and analyze the sensitivity of parameters to each other parameters.**