

DESIGNING A MUD PROGRAM

DRILLING - COMPLETION -
WELL CONTROL
Fluids

E-432

OBJECTIVES

To provide the participants with the necessary knowledge in order to design a mud program.

On completion of the course, the participants are able to:

- know the basic rules to design a mud program,
- understand the importance of drilling fluids when drilling a well,
- understand how to select an appropriate fluid,
- know how to select the needed information,
- organize the technical data within a program.

▲ Who should attend?

Drilling personnel who will participate in a mud program design or who will have to take it into account in a wider program.

COURSE CONTENT

DRILLING FLUIDS

1 day

Function of drilling fluids

Different types of fluids:

- water base muds
- oil base muds
- completion fluids

Characteristics of drilling fluids:

- physical
- chemical
- controls

Mechanical treatment equipment:

- type
- functions
- efficiency

CONSTRAINTS, SELECTION

1 day

Geological, legal, environment constraints

Location, accessibility

Selection of drilling fluids

Economical criteria

Potential problems (losses, kick...)

Selection of characteristics: physical, chemical

Selection of mechanical treatment equipment and overall efficiency

DESIGNING A PROGRAM

3 days

Program analysis

Exercises on a given lithology, casing shoes and drilling phases known

Three phases:

- surface
- intermediate
- production

Selection of a drilling fluid:

- type
- characteristics
- volumes
- logistics

Presentation and result analysis

▲ Duration

5 days

▲ Dates & Location

May be organised for a single company

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