

Air Drilling Course



Air Drilling Course Outline Wild Well

Review the characteristics of Air drilling and advantages of drilling with air versus drilling with fluids

Review the types of Air drilling including:
Dust, Mist, Foam and Aerated

Understand uses and limitations of Air drilling

Understand Dust Drilling overview and equipment specifically used in Dust drilling

Understand Mist drilling overview and equipment specifically used in Mist drilling

Understand Foam drilling overview and equipment specifically used in Foam drilling

Understand Aerated drilling overview and equipment specifically used in Aerated drilling

Discuss Blooie lines, well barriers, float valves and downhole fires

Air drilling well control: main issues and considerations; understand how this differs from well control during conventional fluid drilling

Understand that flaring can be classified as flow management; differentiate between flow management and Air drilling well control; understand that this differentiation can be based upon hole section and equipment configurations that determine the influx response options

The following field calculations will be performed to support the case histories: Hydrostatic and Formation pressure, Kill weight fluid, Drillpipe, Annular, Tubular capacities and volumes, Strokes

Case History: Rig encounters extremely high increases in flow at the blooie line; Conduct safety meeting; Demonstration/Simulation

Case History: while drilling ahead, multiple influxes are encountered; blow down the well or kill the well with fluid; Conduct safety meeting; Demonstration/Simulation

Case History: Shut in the well, circulate again and kill the well; Conduct safety meeting Demonstration/Simulation

Course review and final written test

Completion of course

4 HOURS

**SUPERVISOR &
FUNDAMENTAL**