Air Drilling Course

Air Drilling Course Outline Wild Well

4 HOURS - SUPERVISOR & FUNDAMENTAL

- 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

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