Life Cycle of Oil & Gas Wells - from Drilling to Completion

1. Why is casing laid after drilling the surface section of the well?
A. To increase the drilling speed
B. To prevent the borehole from collapsing
C. To hydraulically seal aquifers from flowing hydrocarbons
D. To reduce the cost of the drilling operation

2. What determines the selection of casing grade?
A. Only the size of the hole
B. Only economic considerations
C. Only the expected pressure of hydrocarbons
D. Multiple factors including hole size, expected pressure and H2S content

3. What is the purpose of cement in the well construction process?
A. To secure the casing string to the formation
B. To increase the drilling speed
C. To extract hydrocarbons more efficiently
D. To reduce the weight of the casing

4. What is meant by "TD" in the context of drilling?
A. Technical development
B. Total depth where the pay zone is anticipated
C. Temporary drilling
D. Testing device

5. How is the bond of cement evaluated after it has cured?
A. Using a perforating gun
B. Using a cement evaluation wireline tool
C. Using logging while drilling tools
D. Using visual inspection from the surface

6. What is the purpose of the perforating gun in well completion?
A. To establish a path between hydrocarbons and the wellbore
B. To evaluate the formation
C. To secure the casing to the formation
D. To remove excess cement

7. What is the "Christmas tree" referred to in the video?
A. A decorative element added to celebrate completion
B. The wellhead equipment installed on top of the well
C. The pattern formed by the perforations
D. The structure of the drilling rig

LIVEWORKSHEETS