

Chapter 5 Casing Setting Depth Selection

The first design task in preparing the well plan is selecting the depths to which the casing will be run and cemented. The drilling engineer must consider geological conditions such as formation pressures and fracture gradients, hole problems, internal-company policies, and, in many cases, a variety of government regulations. The results of the program will allow the well to be drilled safely without the necessity of building "a steel monument" of casing strings. Unfortunately, many well plans give significant consideration to the actual pipe design yet give only cursory attention to the setting depth of the pipe.

The importance of selecting proper depths for setting casing cannot be overemphasized. Many wells have been engineering and economic failures because the casing program specified setting depths too shallow or too deep. Applying a few basic drilling principles combined with a basic knowledge of the geological conditions in an area can help determine where casing strings should be set to ensure that drilling can proceed with minimum difficulty.

Types of Casing and Tubing

Drilling environments often require several casing strings in order to reach the total desired depth. Some of the strings are as follows:

- drive or structural
- conductor
- surface
- intermediate (also known as protection pipe)
- flow

Casing Setting Depth Selection

- production (also known as an oil string)
- tubing (flow string)

Fig. 5-1 shows the relationship of some of these casing strings. In addition, the illustration shows some of the problems and drilling hazards that the strings are designed to control.

All wells will not use each type of casing. The conditions to be encountered in each well must be analyzed to determine the types and amount of pipe necessary to drill it. The general functions of all casing strings are as follows:

- segregate and isolate various formations to minimize drilling problems or maximize production
- furnish a stable well with a known diameter through which future drilling and completion operations can be executed
- provide a secure means to which pressure control equipment can be attached

Drive Pipe or Conductor Casing. The first string run or placed in the well is usually the drive pipe, or conductor casing. The normal depth range from 100–500 ft. In soft-rock areas such as southern Louisiana or most offshore environments, the pipe is hammered into the ground with a large diesel hammer. Hard-rock areas require that a large-diameter, shallow hole be drilled before running and cementing the pipe. Conductor casing can be as elaborate as heavy-wall steel pipe or as simple as a few old oil drums lashed together.

A primary purpose of this string of pipe is to provide a fluid conduit from the bit to the surface. Very shallow formations tend to wash out severely and must be protected with pipe. In addition, most shallow formations exhibit some type of lost circulation problems that must be minimized.

An additional function of the pipe is to minimize hole-caving problems. Gravel beds and unconsolidated rock will continue to fall into the well if not substituted with casing. Typically, the operator is required to drill through these zones by pumping viscous muds at high rates.

Structural Casing. Occasionally, drilling conditions will require that an additional string of casing be run between the drive pipe and surface casing. Typical depths range from 500–1,000 ft. Purposes for the pipe include solving additional lost circulation or hole-caving problems and minimizing kick problems from shallow gas zones.

Surface Casing. Many purposes exist for running surface casing, including the following:

- cover freshwater sands
- maintain hole integrity by pre-casing casing
- minimize lost circulation into shallow, permeable zones
- cover weak zones that are incompetent to control kick-responsive pressures

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