

PETE 203: DRILLING ENGINEERING

EXERCISE # 3

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1. What are the primary objectives of cementing?
2. List five cement testing equipment and state their uses.
3. Define the following:
 - (a) Minimum Water Content
 - (b) Free Water Content
 - (c) Maximum Water Content
4. What are the different types of cement additives?
5. Name the five low specific gravity solids used to reduce slurry density.
6. Name the four high specific gravity solids used to increase slurry density.
7. What are the main functions of Filtration Control Additives?
8. Name four commonly used filtration control additives.

9. Why is it desirable to reduce the effective viscosity of the slurry?
10. List the equipment for conventional cement casing.
11. What is the purpose of using Stage-Cementing?
12. When is Reverse-Circulation Cementing done?
13. What is the use of Delayed-Setting Cementing?
14. What is the use of Plug Cementing?