

# 214 4r 10 for obtaining cores and interpreting

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### 214 4r 10: Obtaining and Interpreting Cores

#### Question 1: What is 214 4r 10?

Answer: 214 4r 10 is a core number that designates a specific core sample obtained from a borehole. The first three digits (214) indicate the borehole's sequential number, followed by a letter (r) denoting the core run, and the last two digits (10) representing the specific core section within that run.

#### Question 2: How are cores obtained?

Answer: Cores are extracted from boreholes using a drilling rig equipped with a coring bit. The bit rotates and advances into the subsurface, creating a cylindrical hole and retrieving a continuous sample of the rock or sediment formation. The core is then extracted and cut into sections for analysis.

#### Question 3: Why are cores valuable for geological investigations?

Answer: Cores provide invaluable firsthand information about the subsurface. They allow geologists to:

- Determine the stratigraphy and lithology of the formation
- Study the physical and chemical properties of the rock or sediment
- Identify geological structures and features
- Collect samples for geochemical and paleontological analysis

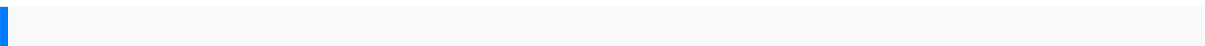
#### **Question 4: How are cores interpreted?**

Answer: Core interpretation involves examining the physical characteristics of the core, such as its color, texture, grain size, and mineralogy. Geologists also use techniques like thin-section petrography and geochemical analysis to determine the petrology and composition of the rocks or sediments.

#### **Question 5: What are some applications of core interpretation?**

Answer: Core interpretation is essential for various geological applications, including:

- Identifying mineral resources and hydrocarbon reservoirs
- Characterizing geological hazards such as faults and groundwater contamination
- Understanding past environmental conditions and climate change
- Conducting geotechnical investigations for engineering projects



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