

Types of drilling



Drilling Methods

- 1) Method of Typical Routes Multilateral drilling
- 2) Directional deflection of wells
- 3) Well deflection control through the use of various drill tool compounds

Drilling technology

Rotary Drilling Technology

Downhole Motor Drilling Technology

Grading system directional wells

Telemetry

Inclinometry

Advantages

1. Possibility of drilling into deposits (deposits under cities, lakes, etc.)
2. Possibility of cluster drilling with one rig
3. Creation of killing wells in the prevention of accidents: disadvantages

Directional Drilling Challenges

Efficient development of oil fields with low reservoir properties of the productive formation, horizontal orientation
 Significant reduction in the number of wells required for oil and gas field development
 Extraction of high viscosity oil from great depths, construction of geothermal plants in areas with low temperatures of rock layers

Conclusion

Despite the numerous disadvantages of this method, it is used by some companies due to its advantages, according to which we use this technique not only as a method of drilling, but also as a way to prevent accidents, as well as for the study of hard-to-reach deposits

Disadvantages

1. The Need for Frequent Stops and Explorations
2. Slow Rock Drilling
3. The need for more sophisticated measurement tools
4. Complicating the prevention of sand ingress into the well

History

Ara Hebearyntse

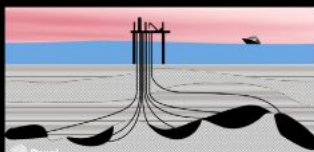


Directional Drilling Challenges
 United States
 First application: 1934, Corro, Texas
 Founders: John Eastman, Roman Hines, and George Felling

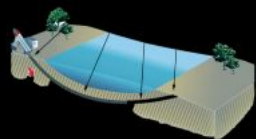
USSR
 First application: onshore - 1941, Bbshybat, offshore - 1946-1947, Caspian Sea
 Founder: Agha Neimatullah

Directional drilling

A method of constructing wells in which they have a complex spatial profile, including a vertical upper interval, followed by sections with specified deviations from the vertical



Directional drilling

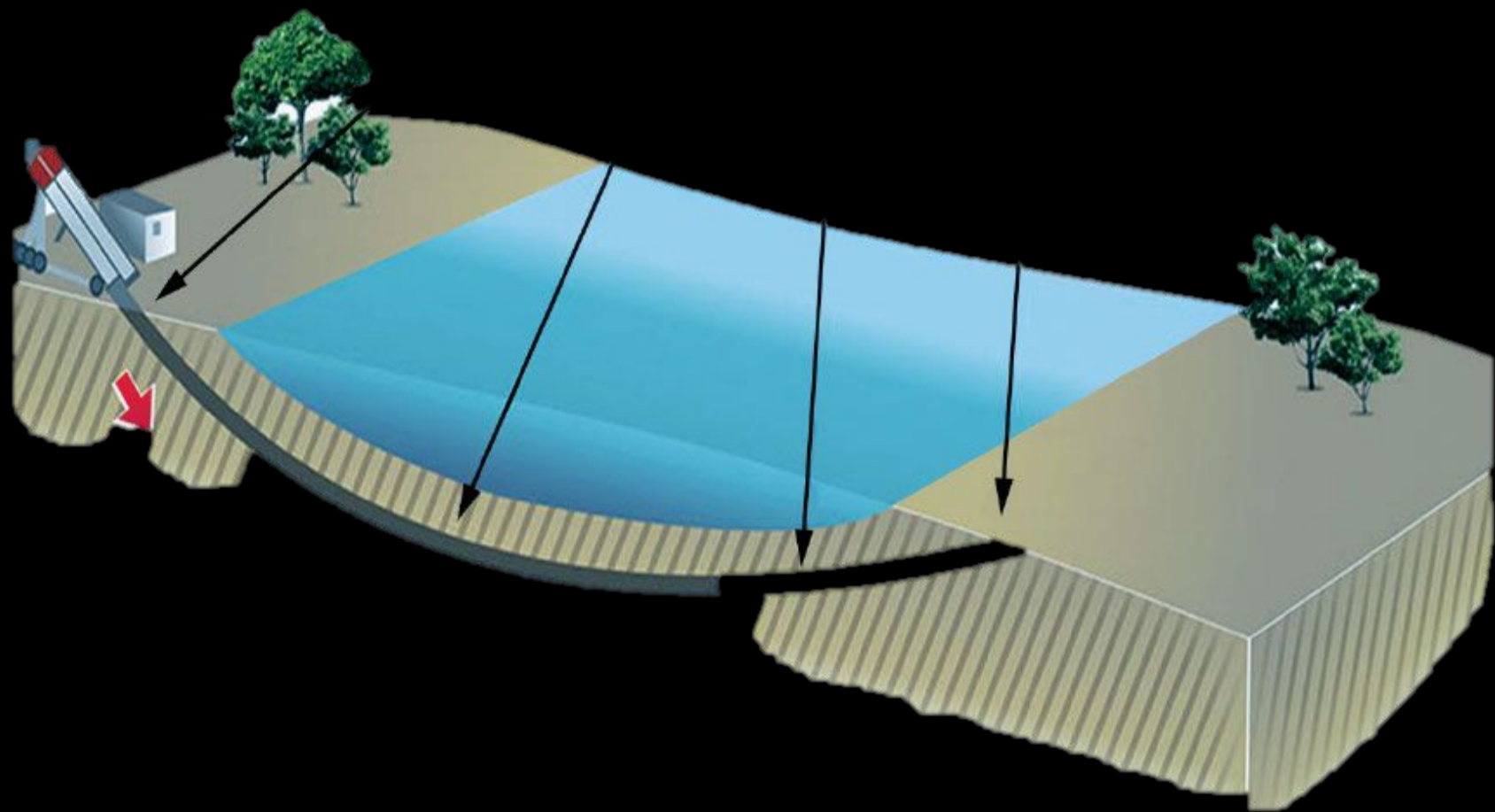


Applications



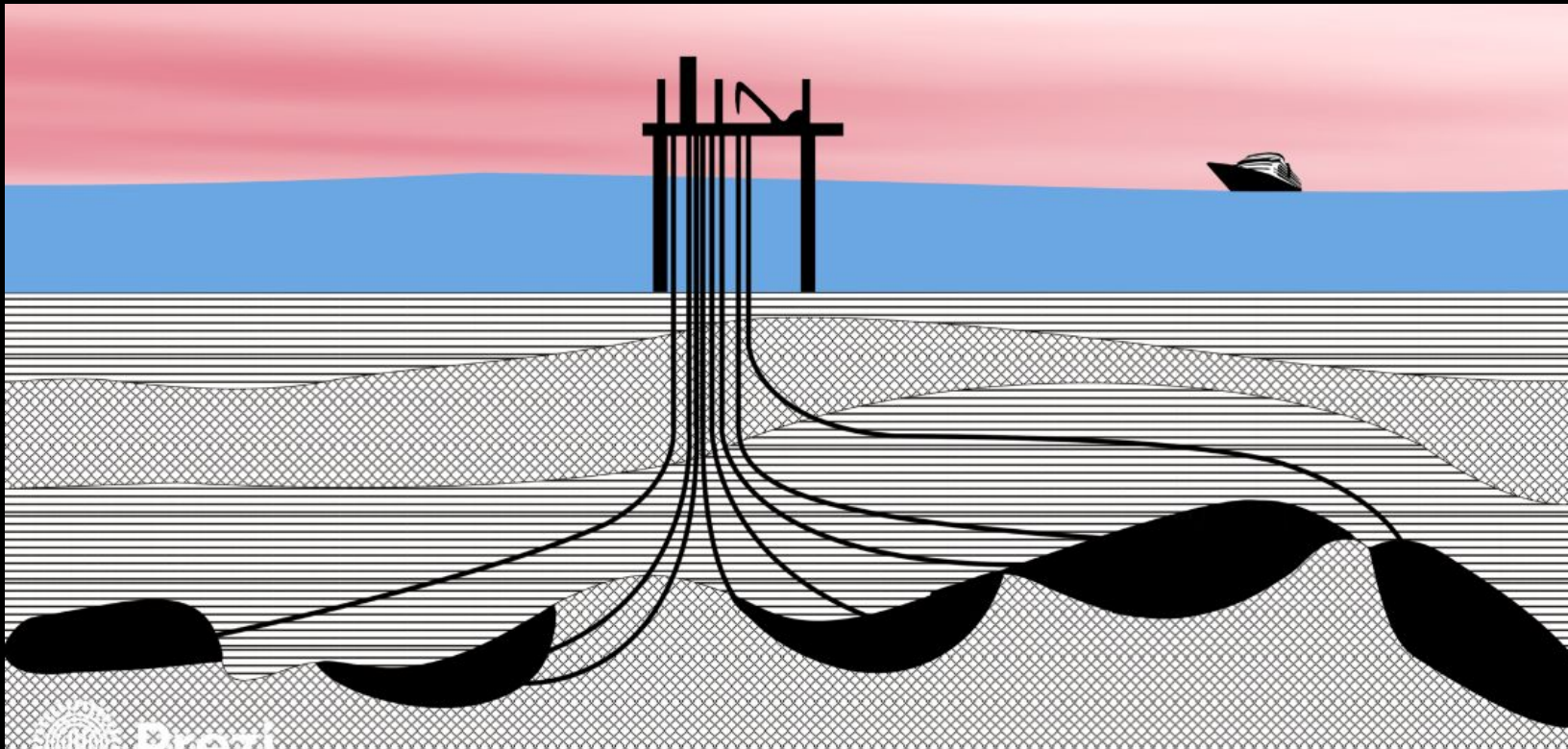
Company





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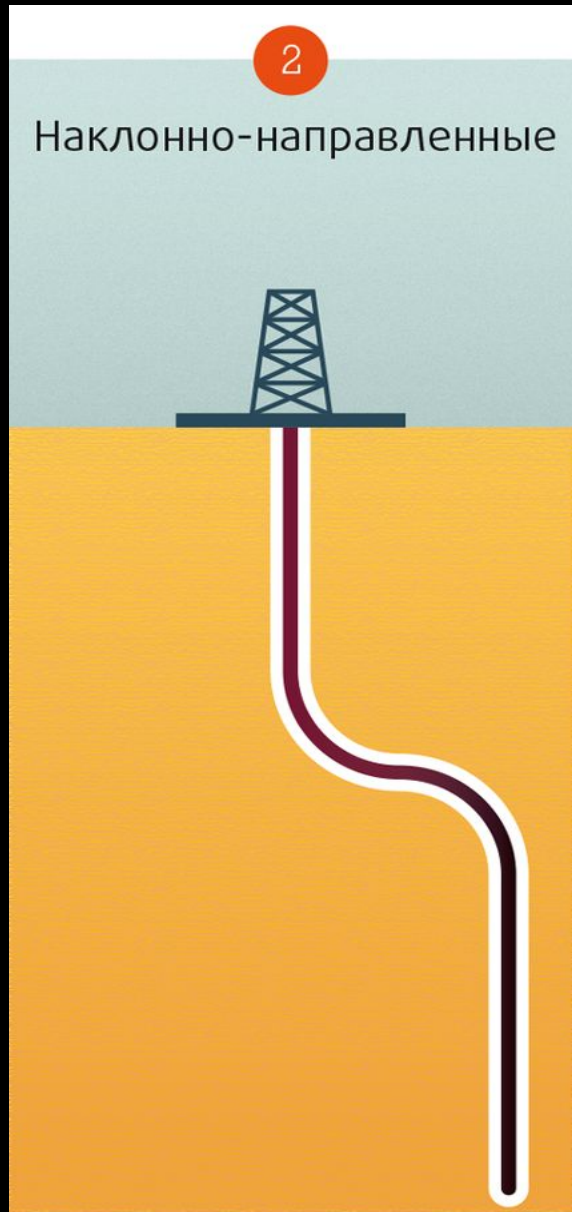
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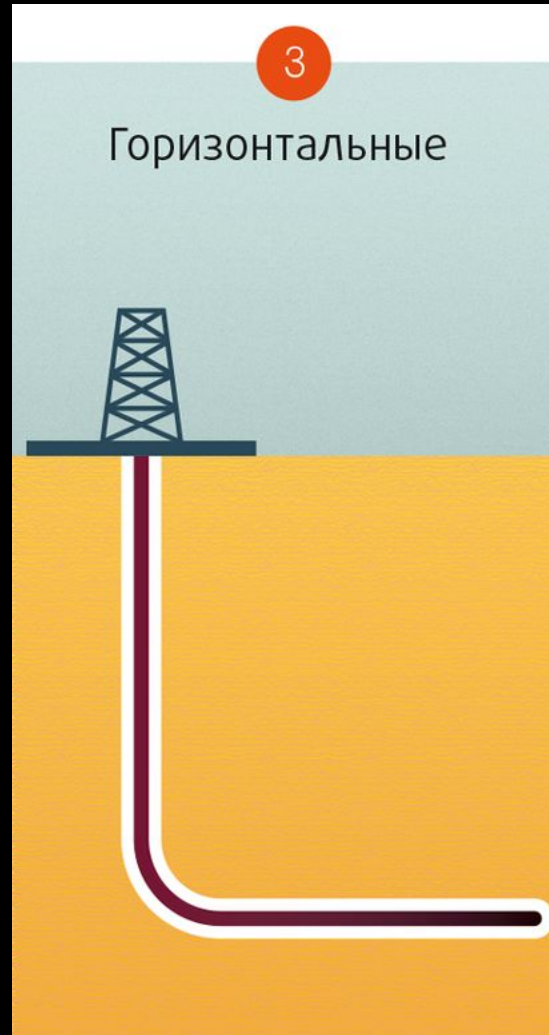


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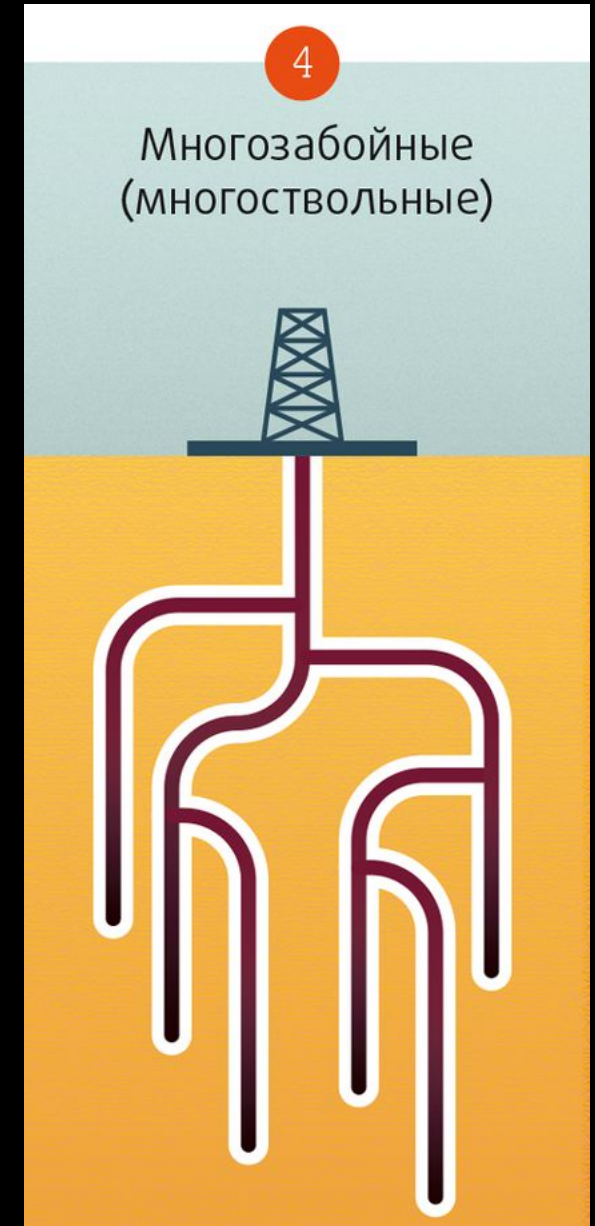
Slant drilling



Horizontal drilling



Multilateral drilling



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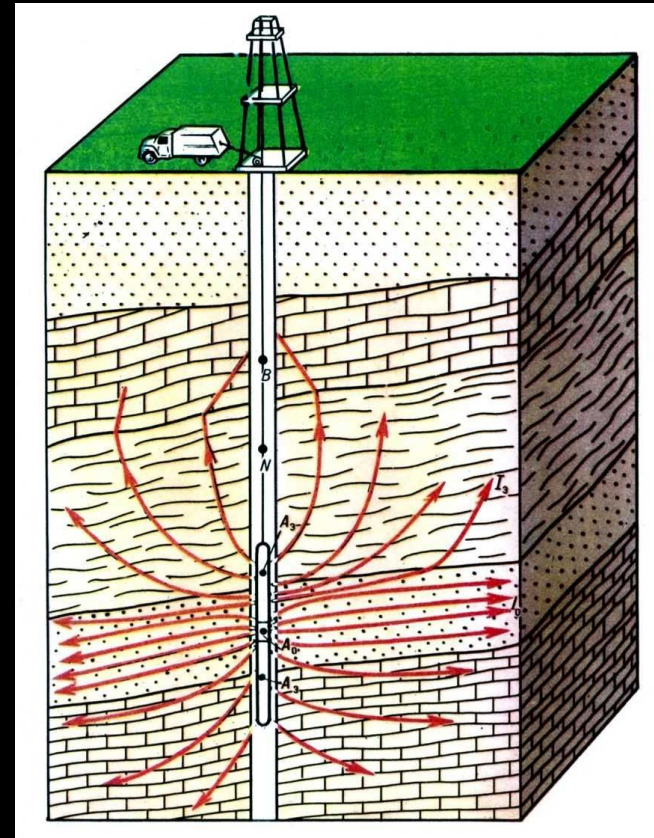
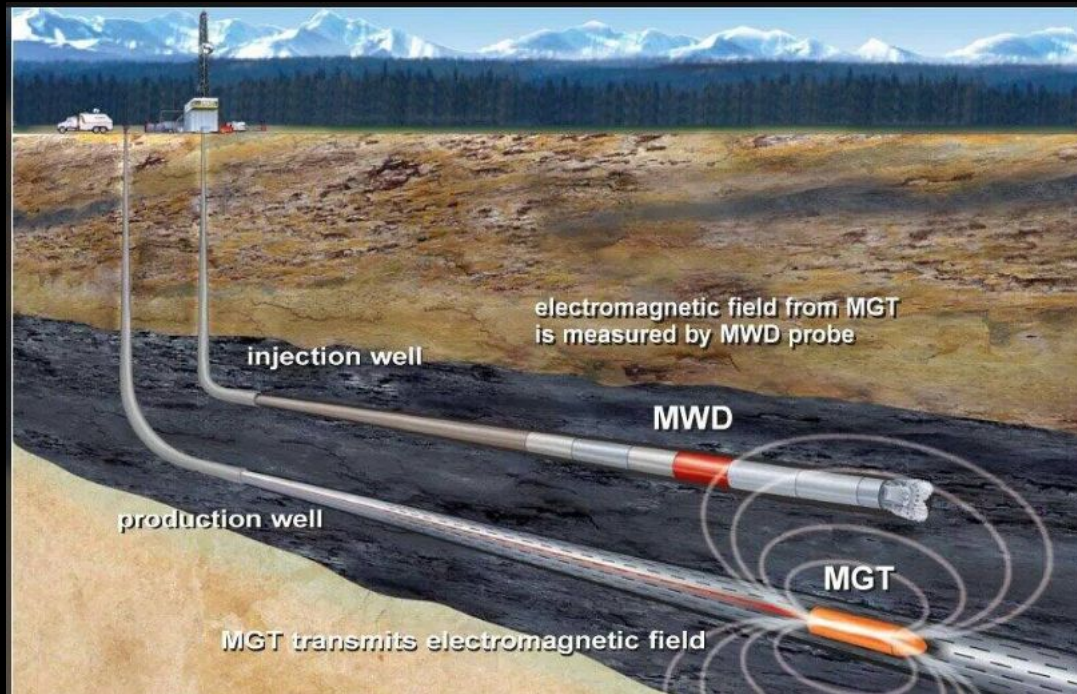
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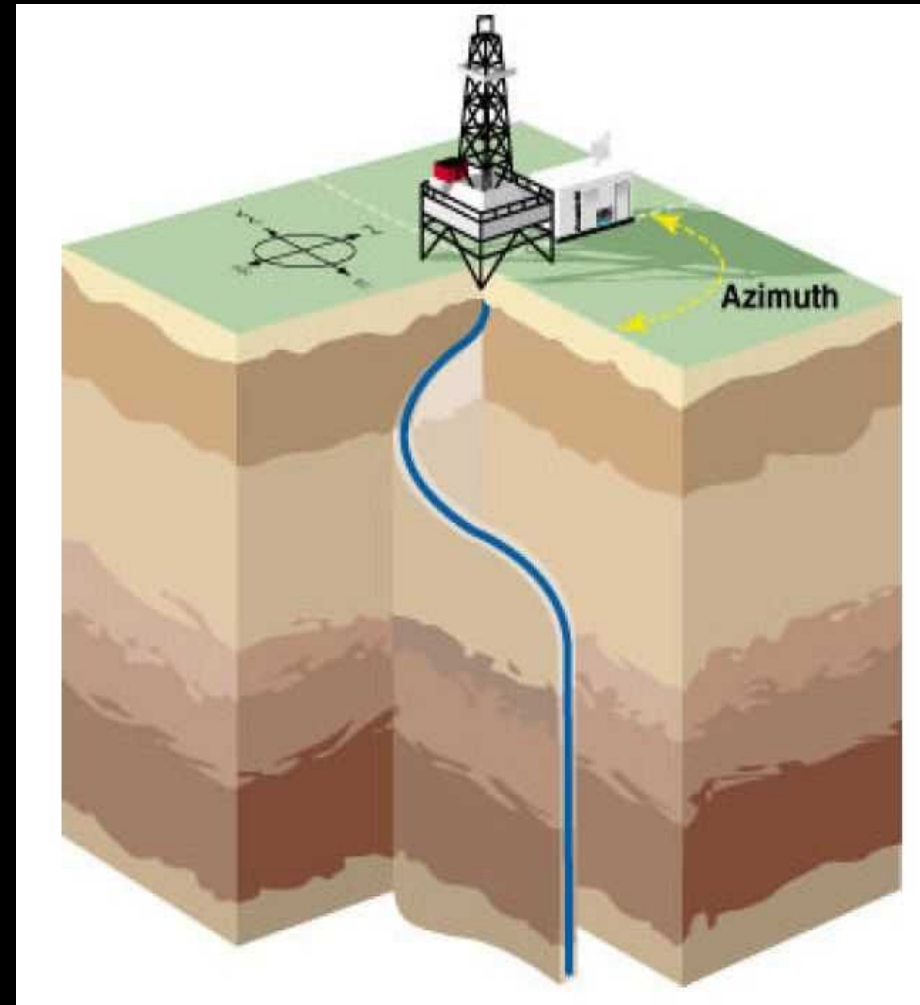
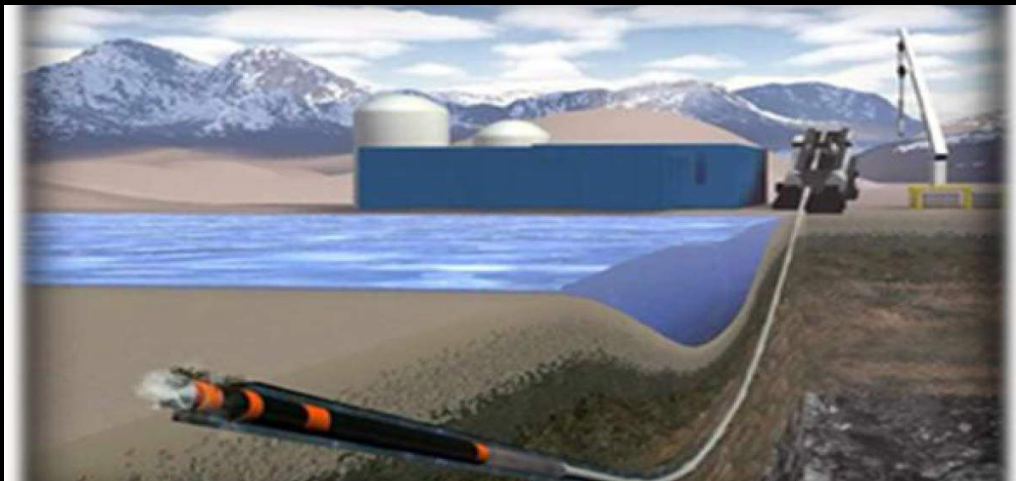
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