Oil & Gas Exploration

“How to become a Millionaire!”
Origin of Oil & Gas

![Diagram showing the origin of oil and gas](image)
Oil Rocks- Ign, Sed or Meta?
Migration and Traps

“Oil & water don’t mix!”
The Search

- Edwin Drake 1859...69’
- Now...>30,000’
- Maps, wells, images, seismics
Drilling Techniques

- Cable Tool, Rotary

Cable Tool

Hughes Rotary Bit
Horizontal Drilling
Recovery

- 25-30 percent extracted
- Enhanced Techniques...5% to 15%

Water
Steam
Gas
Frac
Vacuum
Chemical
World Oil

66% 9% 7% 5% 5% 4% 2%

NORTH AMERICA
WESTERN EUROPE
AFRICA
MIDDLE EAST
EASTERN EUROPE & FORMER USSR
ASIA & OCEANIA