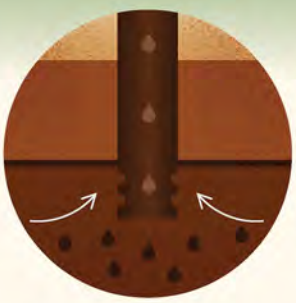
CO_2 ENHANCED OIL RECOVERY:
GREENER OIL

As global energy demand continues to increase, energy producers aim to produce more and "greener" oil—that is, oil with a reduced carbon footprint—through a process called CO_2 enhanced oil recovery (EOR).

PRODUCING OIL FROM RESERVOIRS

Stages of oil production



PRIMARY RECOVERY

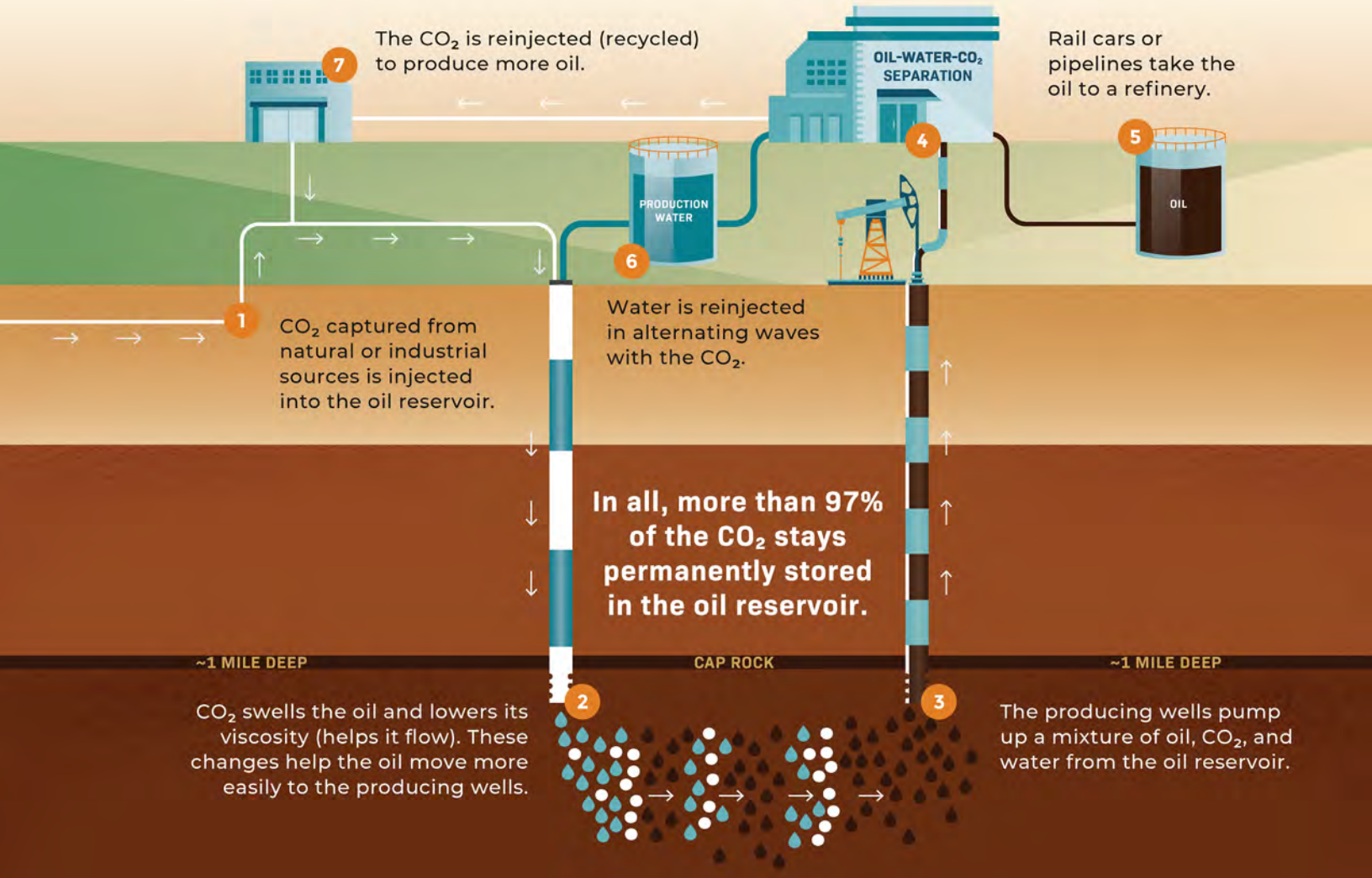
Natural pressure of the reservoir pushes some of the oil to producing wells where pumps bring the oil to the surface.

SECONDARY RECOVERY (WATER FLOODING)

Water injected into the reservoir increases pressure and pushes more oil to producing wells.

TERTIARY RECOVERY (CO_2 EOR)

Injected CO_2 mixes with oil and causes more of the oil to flow to the producing well.



BENEFITS

Using CO_2 captured from industrial sources like power plants, ethanol plants, and gas processing plants for enhanced oil recovery:

- Produces greener oil with a smaller carbon footprint because CO_2 is permanently stored in the process
- Provides economic incentive to capture the industrial CO_2, as the CO_2 is sold to offset the cost of capture
- Enhances energy security with homegrown oil production
- Generates and maintains well-paying jobs, tax base, and viable communities
- Reduces industrial CO_2 emissions to the atmosphere

LOCATION

North Dakota's older (conventional) oil fields

When the market is ready, CO_2 EOR will revitalize older oil fields that are in declining stages of production.

North Dakota's Bakken (unconventional) oil fields

When the technology is ready, CO_2 EOR can be applied to declining Bakken oil wells to improve production.

SAFETY

- Oil reservoirs can hold CO_2 the same way they've been holding oil and gas for millions of years.
- The oil industry has 40+ years of CO_2 EOR experience.
- 4,000+ miles of CO_2 pipelines in North America move CO_2 every day without incident.
- North Dakota's stable geology is ideal for CO_2 EOR.
- Millions of additional barrels of oil have been safely produced (Texas, Saskatchewan, Montana, Mississippi).

Support the development of CCUS and CO_2 EOR in North Dakota as a clean energy strategy.

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