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# Refining

of Natural Gas and Oil

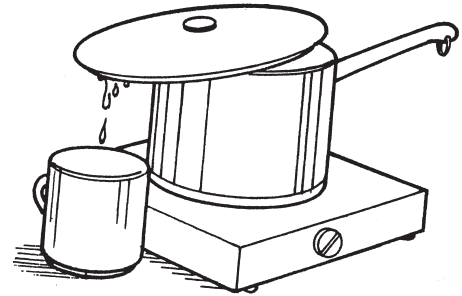
## Experiment

### The Refining Process

Demonstrate the distillation process used in refining oil.

#### Materials:

- ¼ cup salt
- 2 cups water
- Sauce pan with lid that is too large, flat is better
- Cup or mug
- Hot plate or stove



Caution: Wear safety goggles. Collect used oil

#### Procedure:

1. Stir salt and water together in sauce pan.
2. Boil with lid hanging over the edge.
3. Place cup under the lid to catch the distilled water droplets.
4. Allow boiled water to cool.
5. Compare the taste of salty water in pan with distilled water in the cup.

#### Questions and Explanations:

1. How does this demonstrate the water cycle: evaporation and condensation?
2. What causes the water to change from a liquid to a gas and back to a liquid?
3. Why is the water in the cup less salty than the water in the pan?

#### Reflection:

1. How does the oil and gas industry use this science in the refining process?