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Natural gas is a mixture of hydrocarbons (such as methane, ethane, propane) and a few nonhydrocarbons (hydrogen sulfide, carbon dioxide, nitrogen, etc., and water). In combination with water, many of the components commonly found in natural gas form hydrates. The structure of the water molecule leads to the possibility of hydrate formation.

Hydrocarbons are complex mixtures of hydrogen and carbon, which sometimes also contain impurities such as nitrogen or sulfur. When the chemical mixture is composed of small molecules (e.g. CH₄, C₂H₆) it is a gas at normal temperature and pressure. When the mixture contains larger molecules (C₅-C₃₈), it is a liquid.

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Natural deposits of gas hydrates also exist on Earth in colder regions, such as permafrost or sea bottom areas. Natural gas hydrates are unconventional energy resources. Potential reserve of gas in hydrate deposits is over 1.5x10¹⁶m³distributed offshore and on land. About 97% of natural gas hydrates have been located offshore and only 3% on land.

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4.3.2 Natural Gas Hydrates. Natural gas hydrates are solid crystalline compounds formed by the chemical combination of natural gas and water under pressure at temperature considerably above the freezing point of water. The chemical formulae for natural gas hydrates are: Methane. CH₄ •7H₂O. Ethane.

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As stated earlier, natural gas contains some impurities such as H₂S, CO₂, water vapor, and other sulfur compounds. Natural gas that contains more than 5.7 milligrams of H₂S per one cubic meter of natural gas is "sour". However, if it contains only CO₂ and no

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Natural gas from gas hydrates burning. Methane, the primary component of natural gas, is the most common of the gases that form gas hydrate. In fact, the amount of natural gas within the world's gas hydrate accumulations is estimated to greatly exceed the volume of all known conventional gas resources.

What are gas hydrates?

Chemical analysis has shown that it normally consists of around 80 percent carbon, 6 to 10 percent hydrogen, 5 to 8 percent of oxygen, and up to 5 percent sulfur and 2 percent nitrogen. Three main types of kerogen can be distinguished microscopically and chemically.

Oil and Natural Gas

Quite simply put, if there is no water then there is no hydrate. Reducing the water content of a gas stream greatly reduces the likelihood of a hydrate forming. This chapter covers the three common methods for dehydrating natural gas: absorption by a glycol (typically triethylene glycol), refrigeration, and adsorption by molecular sieves.

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