

# Gas Sweetening Gas Processing Plant

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*Sour gas sweetening - PetroWiki* Gas Sweetening Gas Processing Plant Gas sweetening is a process that has to be executed to remove hydrogen sulphide (H<sub>2</sub>S) from gasses. Gas sweetening is sometimes referred to as amine treating. Amine treating can be used in refineries, petrochemical plants, natural gas processing plants and other industries. Gas Sweetening | Paqell Amine gas treating, also known as gas sweetening and acid gas removal, refers to a group of processes that use aqueous solutions of various alkanolamines (commonly referred to simply as amines) to remove hydrogen sulfide (H<sub>2</sub>S) and carbon dioxide (CO<sub>2</sub>)

from gases. It is a common unit process used in refineries, petrochemical plants, natural gas Gas Processing/Sweetening, Amine Treatment Typical process equipment for sweetening sour gas with a regenerative solvent. A schematic drawing of typical process equipment for sweetening sour gas with regenerative solvent is shown in Fig. 1. The first vessel is the inlet separator, which performs the important function of separating the fluid phases on the basis of density difference between the liquid and the gas. Sour gas sweetening - PetroWiki The gas sweetening process results in a product that no longer has the sour and foul odors of H<sub>2</sub>S. Since this process does not recover the sulfur in elemental form, it must be followed by a sulfur recovery step. This process is frequently used in refineries,

petrochemical plants, and natural gas processing plants. What is Gas Sweetening? - Definition from Safeopedia "OIL AND GAS PROCESSING PLANT DESIGN AND OPERATION TRAINING COURSE" "GAS SWEETENING PROCESSES 2002 Page 2 Excerpt from PRODEM 1. GENERAL 4 2. GAS SWEETENING PROCESSES 4 2.1. chemical absorption 4 2.2. Physical Absorption 25 2.3. Physico-Chemical Absorption 28 2.4. Physical Adsorption 31 2.5. Cryogenic Fractionation 32 2.6. Permeation (Membrane) 33 2.7. Gas Sweetening Processes - POGC Flow diagram of the amine process for gas sweetening. Emissions will result from gas sweetening plants only if the acid waste gas from the amine process is flared or incinerated. Most often, the acid waste gas is used as a feedstock in nearby sulfur recovery or sulfuric acid plants. AP-42, Section 5.3: Natural Gas Processing Gas Processing is the second and most important stage is concerned with the recovery and extraction of NGL from natural gas, followed by fractionation to separate components. Modern gas processing plants use cryogenic low temperature distillation process based on the expansion of the gas through a turbo-expander. Natural Gas Processing Amine gas treating, also known as amine scrubbing, gas sweetening and acid gas removal, refers to a group of processes that use aqueous solutions of various alkylamines to remove hydrogen sulfide and carbon dioxide from gases. It is a common unit process used in refineries, and is also used in petrochemical plants, natural gas processing plants and other industries. Processes within oil refineries or chemical processing plants that remove hydrogen sulfide are referred to as "sweetening" processes Amine gas

treating - Wikipedia The process for removing hydrogen sulfide from sour gas is commonly referred to as 'sweetening' the gas. The primary process for sweetening sour natural gas is quite similar to the processes of glycol dehydration and NGL absorption. In this case, however, amine solutions are used to remove the hydrogen sulfide.»

Processing Natural Gas

NaturalGas.org Gas treating and processing. Natural gas is a mixture of many compounds, with methane (CH<sub>4</sub>) being the main hydrocarbon constituent. When natural gas is produced from an underground reservoir, it is saturated with water vapor and might contain heavy hydrocarbon compounds as well as nonhydrocarbon impurities. Gas treating and processing -

PetroWiki Keywords: Chemical

Engineering; Natural Gas Sweetening Process. Natural gas from high-pressure wells is usually passed through field separators at the well to remove hydrocarbon condensate and water (Kirk & Othmer 1951). Natural gasoline, butane, and propane are usually present in the gas, and gas-processing plants are required for the recovery of Natural Gas Sweetening Process Design The Gas Sweetening System, GSS, also known as Amine gas treating, refers to the process of Removing H<sub>2</sub>S And CO<sub>2</sub> (hydrogen sulfide and carbon dioxide) from natural gas. Carbon Dioxide and Hydrogen Sulfide are often found in natural gas streams. Amine Plant | Amine Gas Treating | Remove H<sub>2</sub>S & CO<sub>2</sub> Amine Gas Sweetening Process. Sour gas enters the contactor tower and rises through the descending amine. Purified gas flows from the top of the tower. The amine solution is now considered Rich and is carrying absorbed acid gases. The Lean amine and Rich amine flow through the

heat exchanger, heating the Rich amine. Amine Treating | Amine Gas Sweetening | CO<sub>2</sub> & H<sub>2</sub>S Removal Amine Sweetening. Amine Charge pumps are used to increase the pressure and circulate the amine solution to the amine contactor after it is regenerated. Click image to enlarge or mouse over components to view information. Enerflex provides the full suite of sour gas sweetening approaches, including amine and glycol-based systems. Amine Sweetening - Enerflex Ltd. Amine treating plants remove CO<sub>2</sub> (carbon dioxide) and H<sub>2</sub>S (hydrogen sulfide) from natural gas. The process is known as gas sweetening or acid gas removal, using various alkanolamines, commonly referred to as amines. Amine Plants - Amine Gas Treating - Amine Treating ... NGL Recovery Plants - Condensate Stabilization - Fractionation - HCDP Control JT Plants, Dehydration Plants, CO<sub>2</sub> Removal Plants, Gas Sweetening Plants. Natural Gas Processing Plants - Technical America Amine Gas Treating Sweetening of Sour Gas (Lec048) ... Claus Plant Fundamentals ... Basics4Piping 74,899 views. 6:35. UOP Russell Modular Gas Processing Plants - Full-length Animation | Oil & Gas ... Amine Gas Treating Sweetening of Sour Gas (Lec048) Amine Gas Sweetening Units. ETI provides treatment systems to process and remove acid gases, hydrogen sulfide, and/or carbon dioxide from natural gas. The process equipment consists of standalone vessels and skid-mounted modules. Amine Gas Sweetening Units. ETI provides treatment systems to process and remove acid gases, hydrogen sulfide, and/or carbon dioxide from natural gas. The process equipment consists of standalone vessels and skid-

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### **Natural Gas Processing Plants - Technical America**

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*Amine Sweetening - Enerflex Ltd.*

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### **Amine gas treating - Wikipedia**

NGL Recovery Plants - Condensate Stabilization - Fractionation - HCDP Control JT Plants, Dehydration Plants, CO<sub>2</sub> Removal Plants, Gas Sweetening Plants.

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*Amine Treating | Amine Gas Sweetening | CO<sub>2</sub> & H<sub>2</sub>S Removal*

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#### *Gas Processing/Sweetening, Amine Treatment*

Amine Sweetening. Amine Charge pumps are used to increase the pressure and circulate the amine solution to the amine contactor after it is regenerated. Click image to enlarge or mouse over components to view information.

Enerflex provides the full suite of sour gas sweetening approaches, including amine and glycol-based systems.

#### Amine Plant | Amine Gas Treating | Remove H<sub>2</sub>S & CO<sub>2</sub>

Amine treating plants remove CO<sub>2</sub> (carbon dioxide) and H<sub>2</sub>S (hydrogen sulfide) from natural gas. The process is known as gas sweetening or acid gas removal, using various alkanolamines, commonly referred to as amines.

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#### » Processing Natural Gas NaturalGas.org

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*Amine Gas Treating Sweetening of Sour Gas (Lec048)*

Gas Sweetening Gas Processing Plant

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Amine Gas Sweetening Process. Sour gas enters the contactor tower and rises through the descending amine. Purified gas flows from the top of the tower. The amine solution is now considered Rich and is carrying absorbed acid gases. The Lean amine and Rich amine flow through the heat exchanger, heating the Rich amine.

[Natural Gas Processing](#)

Flow diagram of the amine process for gas sweetening. Emissions will result from gas sweetening plants only if the acid waste gas from the amine process is flared or incinerated. Most often, the acid waste gas is used as a feedstock in nearby sulfur recovery or sulfuric acid plants.

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