



# Glycol Dehydration of Natural Gas

## OVERVIEW

Natural Gas usually contains significant quantities of water vapor. Temperature and pressure condense this vapor altering the physical state from gas to liquid to solid. Water must be removed in order to protect the gas system from corrosion and hydrate formation.

### Typical uses and causes:

- Water vapor must be removed from the gas system in order to prevent the formation of solid ice-like crystals called hydrates.
- Free liquid will form when saturated gas is cooled.
- Producing wells or developed storage fields.
- To meet gas transmission pipe line specifications.

## DEHYDRATION COMPONENTS

The Glycol Dehydration system consists of the following components each designed to meet specific design criteria:

**The Absorber Tower** gas flows upward through a packed bed, or through a series of bubble caps or structural packing filled with glycol where intimate contact is made. The gas gives up the water vapor to the glycol and passes through a mist eliminator in the top of the absorber to retain any entrained liquid.

**The Sock Filters** are designed to remove all solids over 5 microns in size and will operate up to differentials of 20-25 psi. Optional Charcoal filters are available if needed.



fabrication and the as built drawings to meet your request.

□ T.E.R.I. would be pleased to be added to your vendor supplier list for your glycol dehydration equipment needs.

□ T.E.R.I. has the knowledge and the tools to provide your company with the right design and the quality you expect in Glycol Dehydration Systems. Please contact us for a list of companies that we have provided quality equipment in the past ....



**EXAMPLE OF THE QUALITY HEATERS MANUFACTURED BY T.E.R.I.**

**FOR MORE INFORMATION CONTACT T.E.R.I. OR THE SALES REPRESENTATIVE IN YOUR AREA**



8939 West 21st St., Sand Springs, OK 74063  
(918) 447-0844 • Fax (918) 447-0877

