

HEATEC BULLETIN

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Mitchell Gas plant heats regeneration gas with Heatec heaters

Mitchell Gas Services L.P. in Bridgeport, Texas processes wellhead gas into pipeline-quality gas. They do this by filtering the wellhead gas through solid desiccants that absorb moisture. Additional gas processing at the plant produces clean, pipeline-quality gas suitable for homes and businesses.



When the desiccants become saturated with moisture and some liquid hydrocarbons, they are regenerated. This is done by heating pipeline gas and piping it through the desiccants. Two Heatec helical coil

heaters heat the gas used for regeneration, heating it from 50 degrees F to over 500 degrees F.

The heated gas stream vaporizes the moisture and liquid hydrocarbons in the desiccants and carries them away. This regenerates the desiccants so they can be reused. The heated gases then carry the vapors through a condenser and separator. The water vapors are separated and drained away. Liquid hydrocarbons are collected for other uses. Hydrocarbon vapors remaining in the gas stream are piped back to the wellhead gas pipeline where they are recycled.

When a bed of desiccants is fully saturated, the wellhead gas stream is automatically switched to a bed of regenerated desiccants. Thus, the plant can continuously produce pipeline-quality gas without interruption.

The Heatec heaters in this system have outputs of 7.1 million Btu/hr. The coils are manufactured to meet ASME code and are stamped to show compliance. During production, 1 of every 10 welds in the coils were radiographed to further insure quality of the welds. The heaters' shells and skids were sandblasted and seal welded to resist rust.

The heaters were purchased by the Pro-Quip Corporation, who built the plant for Mitchell Gas Services L.P.



One of two Heatec 6010-50-G heaters at the Bridgeport Gas Processing Plant.



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