



The Effects of Natural Gas Development on Small Communities

Calvin Tillman

ShaleTest.org

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Where is DISH?

- DISH is located in North Texas. Just north of the Texas Motor Speedway, in Denton County approximately 25 miles directly north of Fort Worth
- DISH has a geographic size of two square miles and a population of about two hundred
- Including our extra territorial jurisdiction, the population increases to roughly five hundred



Who is DISH?

- DISH was originally incorporated as Clark in 2000.
- In 2005 the name was changed to DISH in exchange for ten years of free dish network.
- The media coverage of this name change was comparable to Apple's release of the iPod.
- DISH's annual budget is around \$70,000.00



The Barnett Shale

- 5,000 square mile geological formation in North Texas.
- Is known as a tight gas reservoir.
- Can only produce natural gas through a process known as hydraulic fracturing.
- As of November 29, 2010 there are a total of gas wells 14,574 entered on RRC records.
- In addition, there are 3,003 permitted locations.

Town of DISH: Grand Central Station of the Barnett Shale

- Eleven high pressure natural gas pipelines converge on DISH.
- Five companies have installed twelve natural gas compressors as well as associated treating facility.
- Home to four natural gas metering stations.
- Around eighteen natural gas wells, inside our corporate limits.
- Fifty plus wells just outside of our corporate limits.

DISH Compressor Stations



Five Separate Compressors?

- Enbridge – Originally permitted September 2004
 - Three compressors, 1250 HP, 1232 HP, and one electric powered
 - Glycol Dehydrators, and an oxidizer.
- Energy Transfer – Originally Permitted October 2006
 - Four 1680 HP compressors, and dehydrator reboilers
 - Added two glycol dehydrators October 2008
- Atmos – Originally Permitted by Energy Transfer November 2005, purchased by Atmos May 2007
 - Two 3550 HP compressors
- Chesapeake – Originally Permitted January 2008
 - Two compressors, 1380 HP, 1340 HP, and a 1250 HP Generator
- Crosstex – Originally Permitted November of 2007
 - One 620 HP compressor

Odor





Industry Study

- After several complaints from the town of DISH, five operators performed a joint air study in the vicinity.
- The industry study showed no major leaks that would cause odor.
- The industry did not look for any specific chemicals or toxins.
- Quote from study “no natural gas leaks were found that would be detectable to the human nose”.



DISH Air Study

- Town of DISH paid approximately 15% of our annual budget to have an independent air study .
- Quote from air study:
 - “Laboratory results confirmed the presence of multiple Recognized and Suspected Human Carcinogens in the fugitive air emissions present on several locations tested in the Town of DISH”.

ShaleTest

- Conduct Environmental Testing at Large and Complex Natural Gas Facilities.
- Provide Environmental Testing for Lower Income Families.
- Establish Baseline Air and Water Testing.
- Affiliated with Earthworks.





**Welcome to the Ruggiero's Home
One Family's Story From the Barnett
Shale**



Trench

Leaking Frac Tank

Waste pit

Condensate Tank Battery

Saturated Ground

Well Heads

Horses

Pipeline

Contacts

- www.townofdish.com
- Calvin Tillman, (940) 453-3640,
tillman4council@aol.com
- www.ogap.org
- <http://baddish.blogspot.com/>
- www.calvintillman.com
- www.shaletest.org
- www.citizensshleadvisors.com
- Donations to ShaleTest made to “Earthworks”.