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## Our look at the MarkWest Cryogenic Gas Plant

**Route 519 near Houston, PA**

**CHARTIERS TOWNSHIP, PA** - What a difference a couple years around Marcellus Shale can make! Ever since MarkWest purchased just over 100-acres of farmland west of Houston, Pa for approximately \$5 million in early 2009, construction has been nonstop. Photos on this page illustrate that progress, with the most recent photos (taken in late-2010) showing the addition of an electric substation and high voltage towers.

28-acres of the 106-acres purchased for this facility were taken off Clean & Green (C&G) favorable tax status in 2010, changing the Washington County taxation rating to "Industrial." This change increased county taxes from \$103 per year in 2008 to \$8,732 per year in 2011.



*Ongoing construction at the MarkWest plant in July 2011*

The pace of construction has been brisk at this rapidly growing cryogenic facility in Chartiers Township. MarkWest has also built numerous [compressor stations](#) around Washington County, Pa, numbering around a dozen at the end of 2010.

Compressor stations that initially began with two compressors were shortly afterwards converted to four or five compressor stations, addressing the ever

2004-2006

**MARCELLUS  
RIVERS**

DRBC

ORSANCO

SRBC

**MARCELLUS  
WATER**

ALL HAIL

Marcellus Shale

Beaver Run Reservoir

Blake Run Falls **New!**

Creeks & waterways

Cross Creek Lake

Dunkard Creek

Impoundments

Monongahela River

Piping water

Wanted: Water

Water Management

Plans for SW Pa.

WV Water Project

**DRILLING WASTE &  
WASTEWATER**

Brine truck photos

Clairton Municipal

Drilling wastewater

McKeesport Municipal

Waste/ Wastewater

Facilities 2010

Waste/ Wastewater

Facilities 2011 **New!**

Wastewater facilities

**MARCELLUS**

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Atlas Frac Pit Fire

Gas well fires

Seeps, leaks, spills

Violations Tip Line

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**EXPERIENCES**

June Chappel

Terry Greenwood

Ron Gulla

Stephanie Hallowich

**New!**

Pam Judy

Darrell Smitsky

increasing demand for compression to move Marcellus Shale gas. [Pipeline construction](#) between Marcellus gas wells, compressor stations and this large cryogenic facility is proceeding nonstop into 2011.



*July 2011*

This Houston plant comes on the heels of five other new gas plants constructed by MarkWest in the Appalachia region over a 10-year period: Boldman, KY in 1996, Kenova, WV in 1997, Maytown, KY in 2000, Kermit, WV in 2001 and Cobb, WV in 2005.

MarkWest's most controversial Pennsylvania project to date is construction of the [Welling Compressor Station](#) near Washington, Pa. With construction due to be completed in March 2012, it will be one of the largest compressor stations in the US with 14 compressors. Total compression horsepower will more than double what was situated next to DISH, Texas in 2010.

MarkWest is headquartered in Denver Colorado.

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***Photos of the MarkWest Cryogenic Plant  
near Houston, Pa***

YouTube

**GAS FACILITIES & EQUIPMENT**

- Compressor stations
- Day Compressor Station
- Frac truck photos
- Fracking
- Gas flares
- Gas pipelines
- Gas shale plays

**Houston Pa Cryogenic**

- Lowry Compressor Station
- Majorsville Gas Plant
- Marcellus FRAC
- Photos of gas wells
- Restored well sites
- Seismic testing
- Welling Compressor Station

**MARCELLUS SHALE WELLS**

**MARCELLUS GAS PRODUCTION *New!***

- NOW DRILLING
- WEST VIRGINIA
- Avolio Unit
- Bedillion-Day Unit
- Bednarski Unit
- Best Production Pad
- Bigley Unit
- Carol Baker Unit
- Chappel Unit
- Costanzo Unit
- Cowden 1H-2H
- Cowden 3H-6H
- Cross Creek Park
- Day Unit
- Drugmand Unit
- Engel Unit
- Foster Unit
- Godwin Unit
- Goettel Unit
- Harbison Unit
- Hoskins Unit
- Kearns Unit
- LBROS Unit
- Lowry Unit
- Miller, John Unit
- Miller, Lois Unit
- Renz Well
- Rodenski Unit
- Sierzega Unit
- Trax Farms
- Troyer/Space Mgmt
- Ward Unit
- Weimer Unit
- Worstell Unit



*Initial construction in 2009*



*MarkWest's hilltop facility*



*In 2011, MarkWest Liberty plans to expand its cryogenic processing capacity at the Houston plant from 155 MMcf/d to 355 MMcf/d*



*MarkWest's cryogenic plant near Houston, Pa*



*MarkWest Liberty Midstream & Resources, LLC*



*One of the many gas pipelines running into the MarkWest plant*



*MarkWest pipe yard in Westland, Pa near the [Renz Well](#),  
the first horizontal Marcellus Shale well ever drilled*



*Early fall 2010*



*Liquefied gas storage is ever expanding*



*Liquefied Petroleum Gas - LPG - leaving the Houston plant through the small town of Houston Pennsylvania*



*Liquefied Marcellus gas leaving the MarkWest plant on Route 50 through Hickory, Pa.*



*Early 2010 winter construction*



*Electric supply towers erected in late-2010 to supply*

*the new electric substation below*



**Late 2010**

*New electric substation construction nearing completion near Route 519*



*New larger flare installed following the initial smaller flare to the right*



*More permanent sign at entrance to facility*



**January 2011**

*Looking up at new construction from Rte 519*





*New Allegheny Power substation will provide electricity for expanded processing activities in 2011 and beyond*



**January 2011**  
*High voltage towers along Route 519*



*Various flares and processing towers*



*Looking up at the rapidly expanding facility from Rt 519*

