

Wetzel County Action Group (WCAG)

Mission. The Wetzel County Action Group will support economic development for the county and state; and work to insure that economic development does not negatively impact the safety, economic interests, and quality of life of the Citizens of Wetzel County.

Typical Production Sequence for Marcellus Shale Gas Operations

- 1. Site preparation: clearing, road, grading, gravel, drainage
- 2. Drill rig move, set up; Drilling operations; remove rig
- 3. Hydraulic fracturing; sand kings, frac pumps, sand cans
- 4. Completions; condensate and brine tanks;
- 5. Gas processing on well pads
- 6. Pipelines and Compressor
- 7. Compressors and Gas Processing Plants

What we see on the roads, tells us what is occurring on the well pads.

CNX Convoy After Near Collision

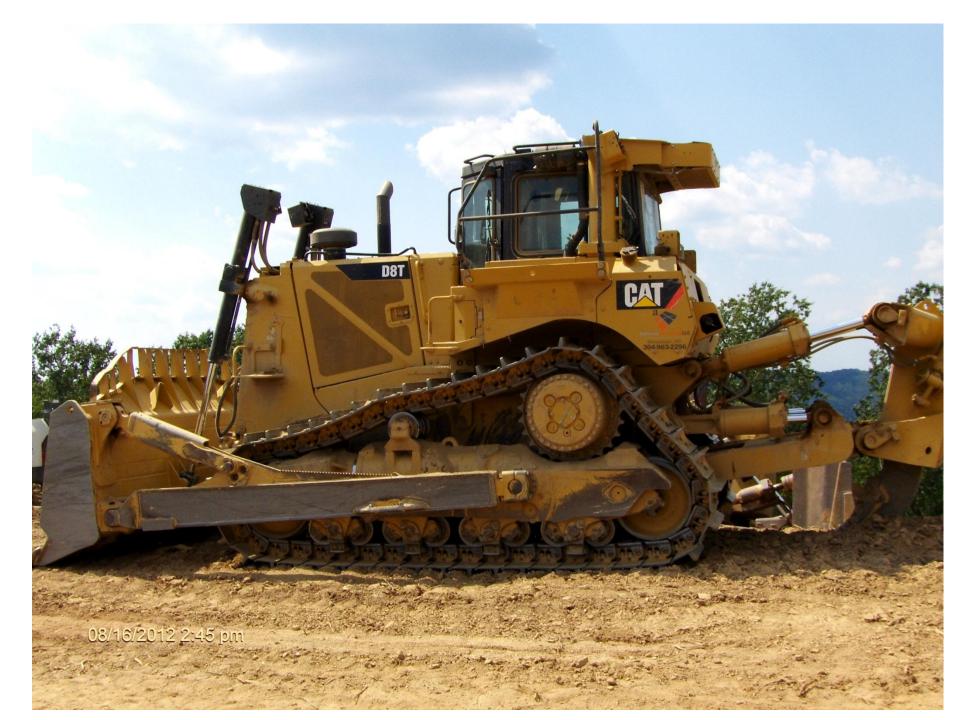




Heavy Equipment for Well Pad Work

Notice size for comparison in next few slides









Stone Energy Howell Well Pad Site Preparation

Wetzel County, WV



2

Drill Pad Site Clearing





Assorted Dump Trucks Hauling Gravel to Well Pads











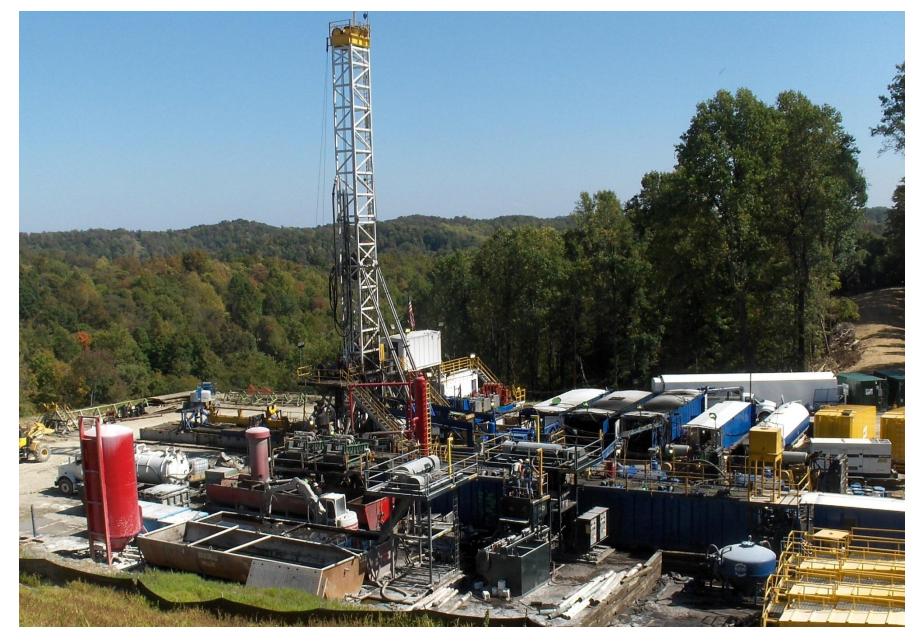


Stone Pad 3 Drilling in Progress

Stone Energy Pad 3 LWWMA, Wetzel Co. WV 39-30.587 N---80-40.377 W Photo by SKYTRUTH--Nov. 2012

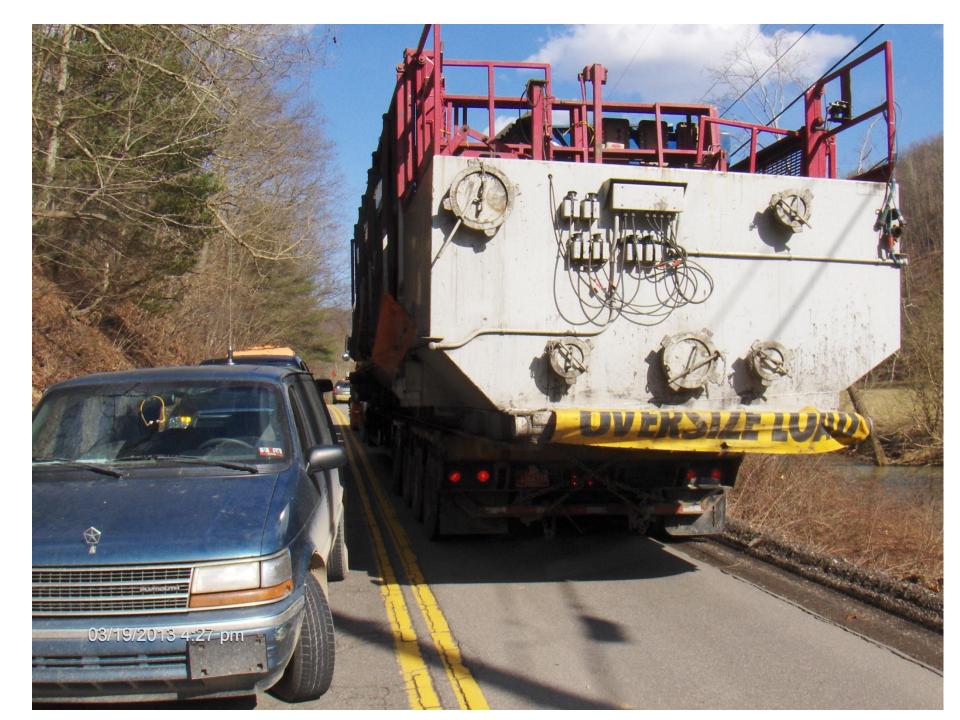


Drill Rig at Work









Drill Rig Parts













Pipes for Drilling



















Cement trucks for well casing





Hydraulic Fracturing Equipment

- Cleared out well pad with some fluid storage tanks
- Well heads prepared to accept frack hardware
- Sand kings
- 10-18 Fracturing pumps put into place
- Frack chemical tanks
- Crane to hold pipes and flex hoses
- Start running sand cans



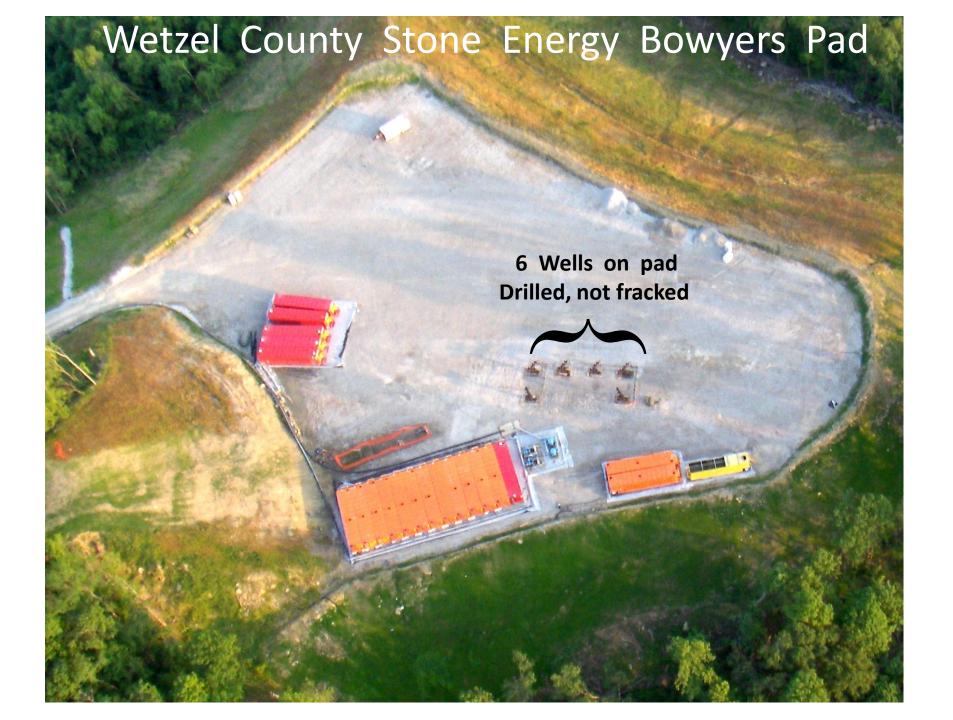
Another Frac in process





Wetzel County Stone Energy Bowyers Pad

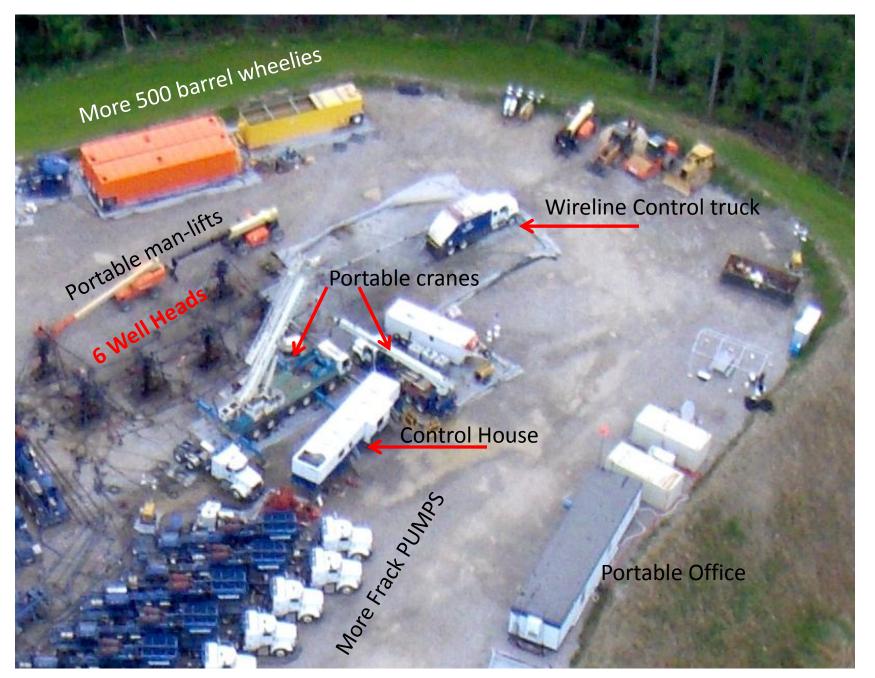
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Wetzel County Stone Energy Bowyers Pad



Top Right



Bottom Right



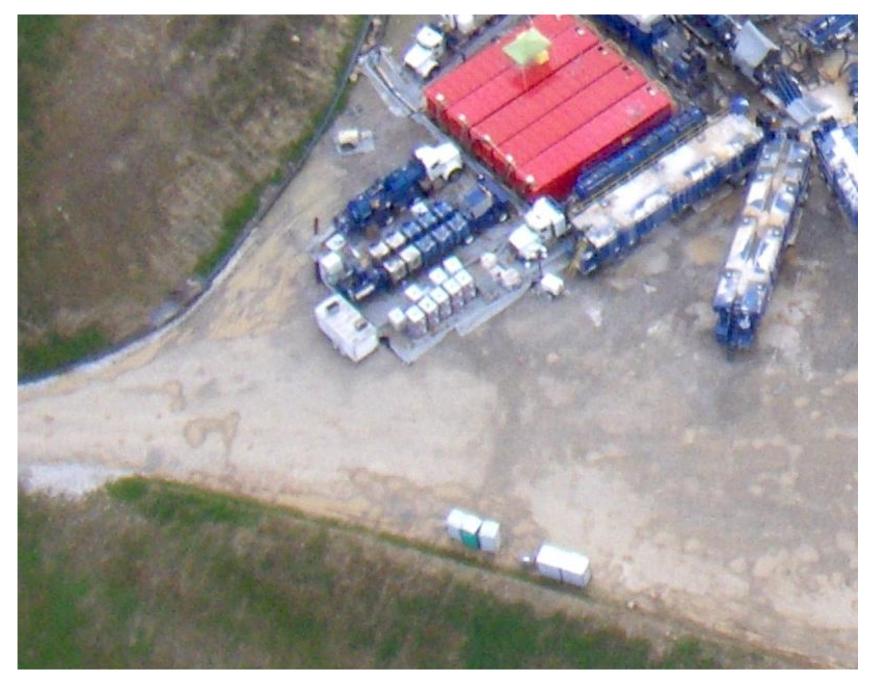
Top Left

Also called "frack tanks"

Frackpumps

Liquid storage tanks—500 barrel wheelies Each holds 500 barrels X 42 gal/bar= 21000 13 X 5000 X 13 = 273,000 gallons.

Bottom Left



102 Tanks at this site Each tank = 500 Barrels of fluid One barrel = 42 gallons Total capacity here is 2,142,000 Gal

09/01/2012 4:06 pm























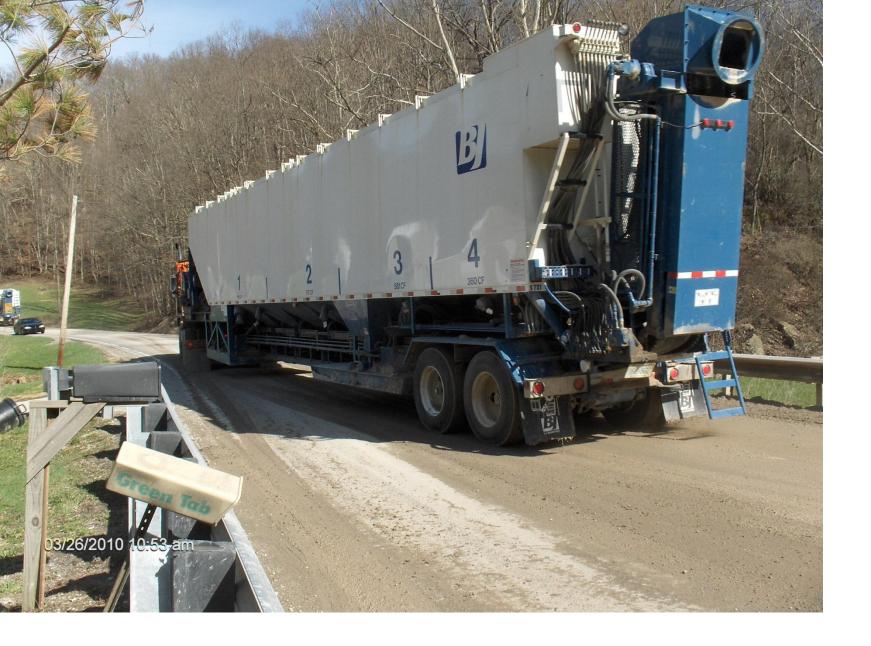




















14 Schlumberger Fracturing Pumps















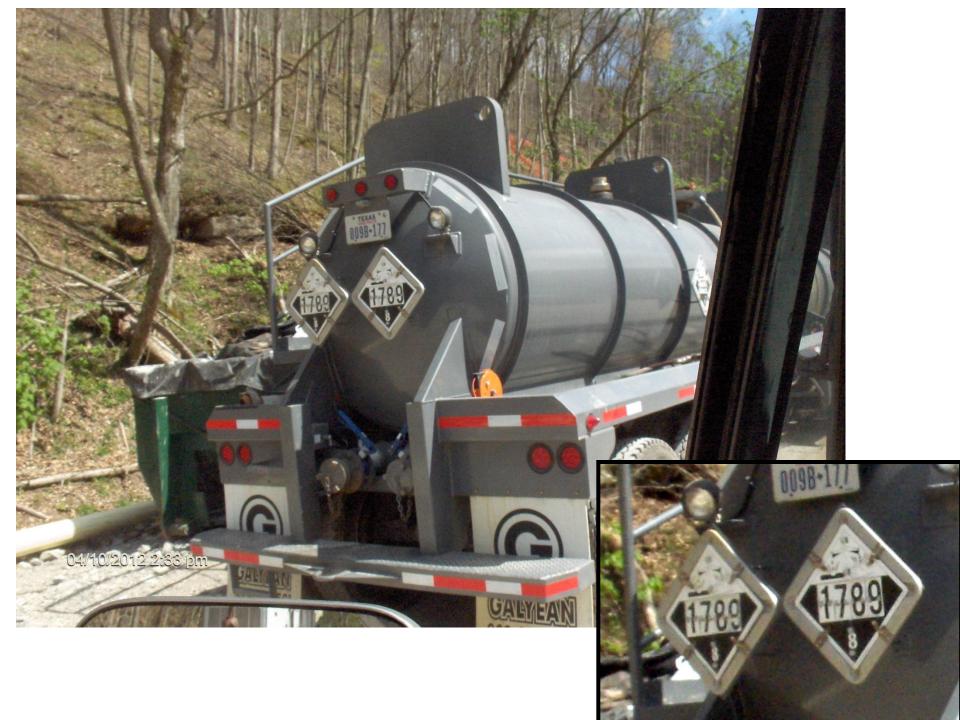






Hydrochloric Acid Tanker Being pulled up hill

































Sand trucks again waiting on CR 58 outside of HG Energy Hoyt 404 well pad.

01/15/2013 3:17 pm

n state right of way ith no flagger, with g my travel

of Jacksonburg

Below picture is on Sat. Two sand trucks like this one were parked on the roadway for at least 1 hour and 11 min.

01/05/2013 5:09 pm

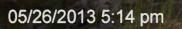
















































Service Rig

04/20/2010 5:31 pm

Tanker Truck at stream bank ? ?





