

Rocket Fuel, Fertilizer, and Fracking

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Back in 1981, I was a sophomore at Michigan State. I can't remember my major at the time; I changed it too much. But, I knew a young gentleman by name of Bob Burns who was a horticulture major who also attended MSU Mennonite Fellowship in the basement of the University Chapel. He was a 4.0 student, the *only* I had ever known at MSU in my *entire* career there. Bob told me a few things that stuck in my mind, even until now:

1. use of synthetic fertilizers sterilizes soil
2. human pee will kill a plant; it's too strong
3. nitrogen based fertilizers are made from natural gas
4. something else important .. maybe I'll remember later?

So today, I did some checking and verified the following facts:

1. many rocket fuels are made from kerosene, petroleum
2. nitrogen based fertilizers are made from natural gas*
3. fracking** , which sounds like a swear-word, is not

*"The ammonia is produced by the Haber-Bosch process.[6] In this energy-intensive process, natural gas (CH₄) [is used]"
source: <https://en.wikipedia.org/wiki/Fertilizer>

**fracking has made the United States *number one in the world* for natural gas production

"China is estimated to have the world's largest shale gas reserves.[4]"

source: https://en.wikipedia.org/wiki/Shale_gas

I'm still trying to remember item 4 above .. Maybe later..



Romeo's poop covered with Bokashi*



Romeo

*Bokashi is a composting-assist available on [ebay](#)



my organic terrarium

Organic things are *more than neat*: they're actually **sustainable**. When I found out America is number one in natural gas production, I was happy; then I found out China has the biggest reserves and I wasn't so happy anymore. We're ignoring [solar](#) from Musk, thorium-[nuclear](#) power, and many more things that are much more sustainable than fracking. I agree we *should utilize what's there*; but at the same time, we need to make ***overt clear objective steps toward sustainability***.

Maybe that's what I was trying to remember about item 4?
Maybe..