



## What is natural gas?

Natural gas is a colorless, odorless fuel used around the world to heat homes, cook food, dry clothes, heat pools, produce electricity and so much more. Today's natural gas can even be used for cars, trucks, buses and other vehicles.



**FUN FACT** 

There are over **1,000,000 miles** of underground gas pipelines in the U.S.

Enough to go to the **moon and back twice!** 



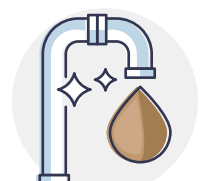
## New energy for bright futures – Renewable Natural Gas



LIVESTOCK



CROPS



WASTE WATER



FOOD WASTE

At Virginia Natural Gas, we're always moving forward to find bright new ways to make the most of our natural resources.

### Renewable Natural Gas (RNG)

is created when methane is collected from various things like food waste, animal poop, wastewater sludge and garbage to be repurposed, keeping greenhouse gases out of our atmosphere.

By connecting RNG facilities to our existing energy system, we can recycle existing or naturally occurring waste before it produces methane and convert it into safe, reliable, renewable natural gas.

**BUUUUURP**



## FUN FACT


**Gross:** Cow burps and toots are the #1 source of U.S. methane emissions.

**Also Gross:** Cows usually poop while they are being milked.









**Not Gross:** We can harness that poop into renewable energy and celebrate our naturally gassy friends!

## Know what's below


When you learn what keeps Virginia Natural Gas safe for you and future generations, you'll discover that there's much more underground than just dirt. Before you or your parents dig for any outdoor project or new construction, make sure they know to contact **VA811**. When they contact **811**, someone will come to your home and mark any and all lines buried underground, so you don't cause an emergency with broken or dangerous lines. Learn the colors, then look for the matching game in this activity book! Learn more at [virginiannaturalgas.com/safety](http://virginiannaturalgas.com/safety).

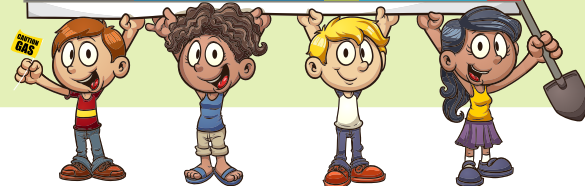
 Virginia Natural Gas

Color Code for Marking Underground Utility Lines

-  Electric
-  Gas - Oil
-  Communication
-  Water
-  Irrigation
-  Sewer
-  Proposed Excavation
-  Temporary Survey

Smell Gas? Call 877.572.3342

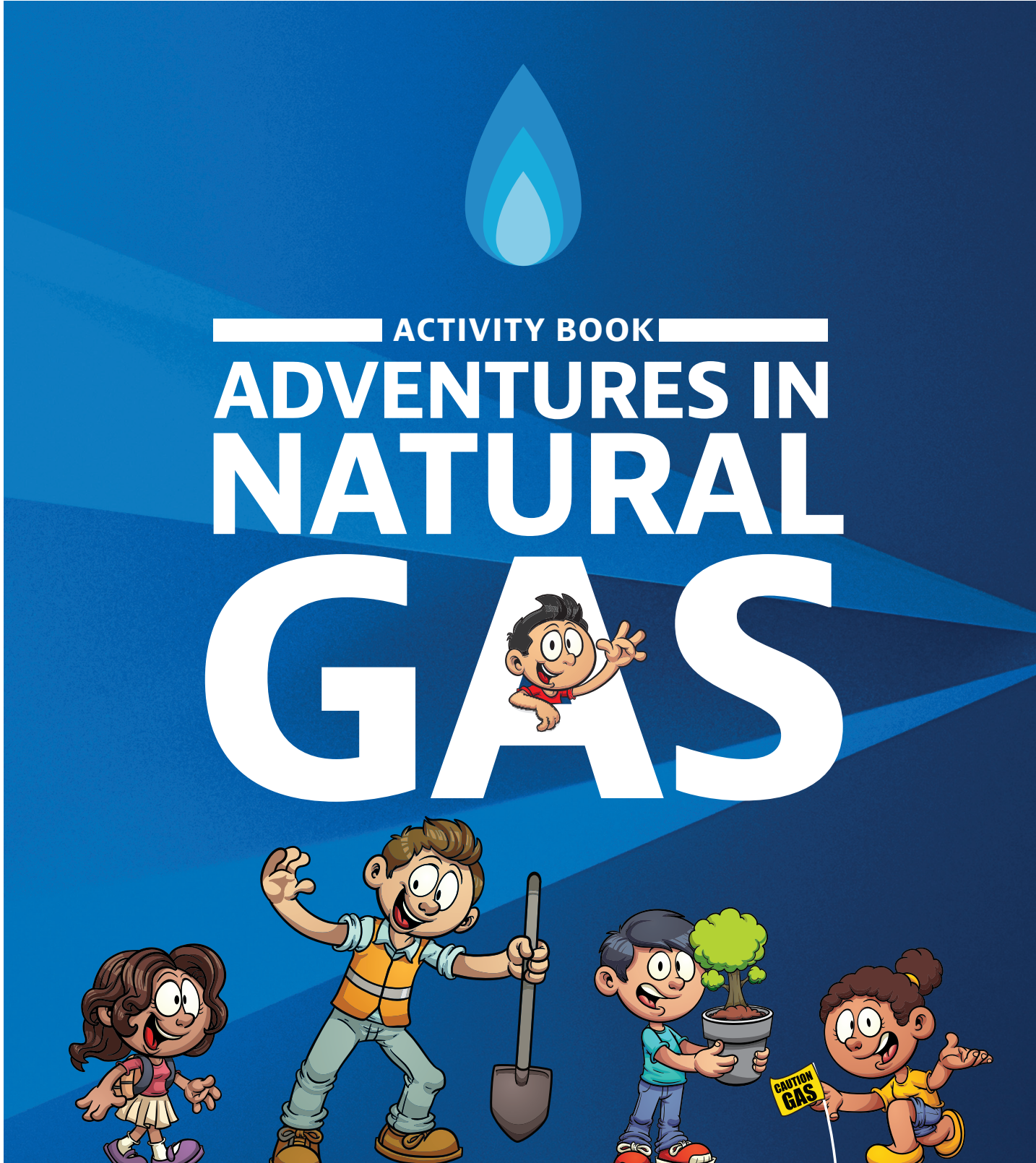
**va811.com**  
Dig With 



# Virginia Natural Gas



[virginiannaturalgas.com](http://virginiannaturalgas.com)

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**ACTIVITY BOOK**

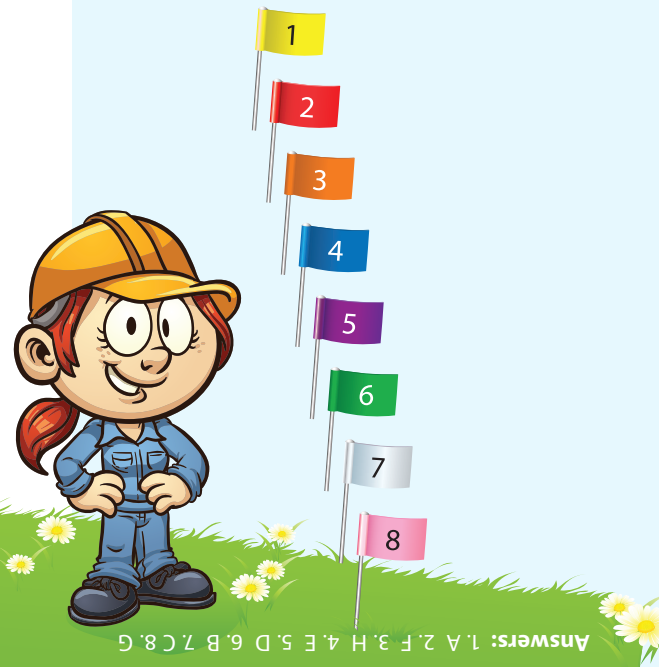
# ADVENTURES IN NATURAL GAS


## Virginia Natural Gas

## Match the Flags TO THE CORRECT UTILITY

Now that you "know what's below," play the matching game to stay safe and in the know!



- A. Gas, oil or petroleum
- B. Sewer
- C. Proposed excavation
- D. Reclaimed water, irrigation
- E. Potable water
- F. Electric
- G. Temporary survey
- H. Communications



Know what's below.  
Call before you dig.

## Word Search

Find your future: see if you can find some of the careers offered at Virginia Natural Gas.

R E M E T E R R E A D E R N  
 O N I U O R E I C X P N E H  
 T G J M U B E C W J S X O H  
 A I T Y R B O G X E O I B C  
 R N F I I U X B A X R X Y E  
 E E U P N F L Y B N L C N T  
 P E W T S Y L A N A A T A D  
 O R A X Y U N U Z H K M X L  
 E N A P P R E N T I C E B E  
 T W N B A C I N A H C E M I  
 Z R S M M P U L S W H S L F

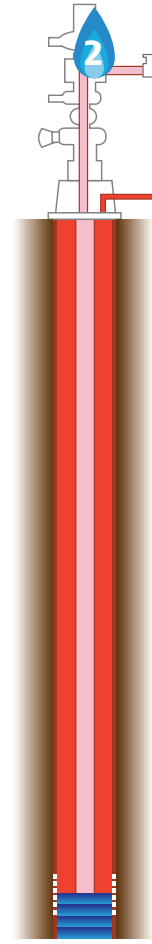
[virginiaturalgas.com/careers](http://virginiaturalgas.com/careers)

- Accountant
- Apprentice Crew
- Data analyst
- Engineer
- Field tech
- Manager
- Mechanic
- Meter reader
- Operator



## How does natural gas get from the ground to your house?

FIND YOUR WAY. FIND THE FACTS.



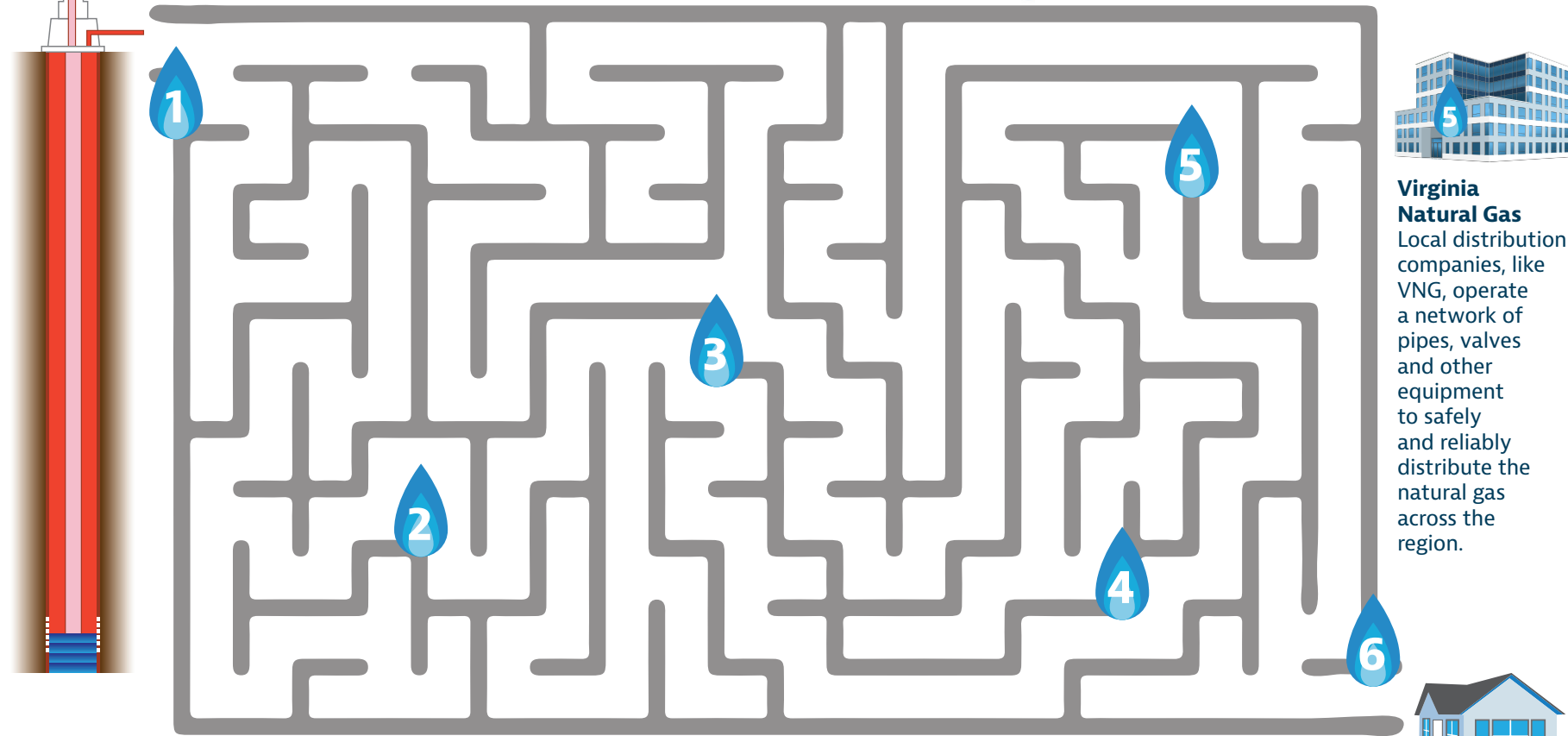
**Natural Gas Wellhead**  
Wells are safely drilled to reach the basins to access the natural gas deep underground.



**Gathering System and Processing**  
The wells are connected by a network of pipelines that gather the raw natural gas to be cleaned and processed in preparation for use by consumers.



**Transportation**  
Long-distance pipelines transport the natural gas across the country from areas where it is produced or stored to cities and towns where it can be distributed to homes and businesses.



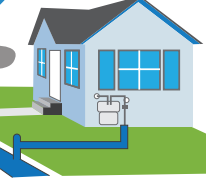
**Virginia Natural Gas**  
Local distribution companies, like VNG, operate a network of pipes, valves and other equipment to safely and reliably distribute the natural gas across the region.



**Natural Gas Basin**  
Natural gas lies miles deep within the earth between layers of rock and the remains of organic material like plants and animals.

**Final Stop – In the Home**

Once at your home, natural gas is measured with a meter as it is used for heating, cooking and other purposes. This is how we can tell how much natural gas is used at your home every month.



FUN FACT



Every year, VNG gets over **250,000 calls** to **811** to have underground lines marked before someone digs. Way to go!  
[VA811.com](http://VA811.com)



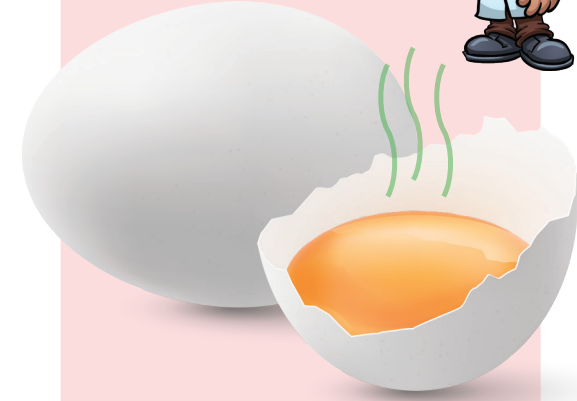
FUN FACT



**Sniffy the Skunk says "If you smell gas, act fast!"**

Color Sniffy the Skunk and be on the lookout for a yucky rotten egg smell.

Tell an adult to call 911!



Natural Gas is odorless. But because it is flammable, VNG adds a scent that smells like rotten eggs to help detect if there is a leak.

If you smell this rotten egg smell, call **877.572.3342** or **911**.

