

ACTIVITY GUIDE

How the Oil & Gas Industry Protects Our Drinking Water



The Activity

Using products found in your local grocery store, this activity demonstrates the oil and natural gas industry's commitment to protect the water table during oil and natural gas drilling operations.

What You Need:

- 2 Little Debbie cakes per person
- 1 squeeze bottle of white icing
- 1 squeeze bottle of blue icing
- 1 squeeze bottle of black icing
- 1 squeeze bottle of green icing
- 1 box of rigatoni
- 1 box of chewy soft cookies
- 1 package of gummy lifesavers
- 1 bag of stick pretzels
- Plates

How It Works:

1. Squeeze a quarter-sized amount of black icing to resemble your oil reservoir
2. Place one Little Debbie cake on top of the oil to represent early-age rock layers
3. Spread a layer of black icing to represent another layer of rock – potentially oil and natural gas formed from another time period
4. Place the second Little Debbie cake on top of the first layer to represent later-age rock layers
5. Spread blue icing over the top of the second Little Debbie cake, to symbolize the water table
6. Place the gummy lifesaver around the piece of rigatoni – this represents the two layers of protective steel pipe, also known as casing
7. Squeeze white icing between the lifesaver and the rigatoni as the first layer of cement
8. Put the rigatoni and lifesaver inside the top of the cake, with the lifesaver resting on top of the Little Debbie cake.
9. Spread white icing inside the rigatoni to represent the second layer of protective cement
10. Stick the pretzel inside the rigatoni to drill the well. If your pretzel is long enough, you should pull it out with black icing on one end.
11. Add green icing and crumble your cookie on top of your Little Debbie to resemble the industry's standard operation to reclaim the land to its original state.