

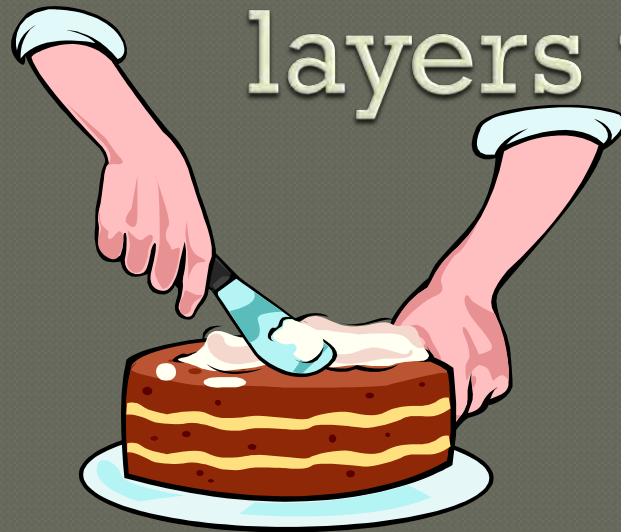
UNDERSTANDING NRCS MAPS

How are they set up?

How do you add layers to a map?

What does the map look like in 3d?

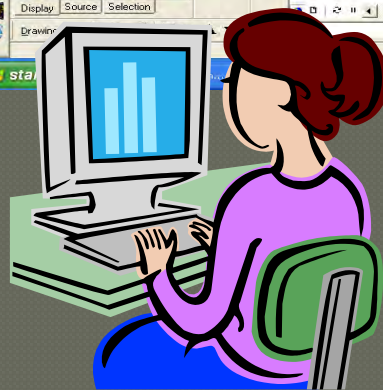
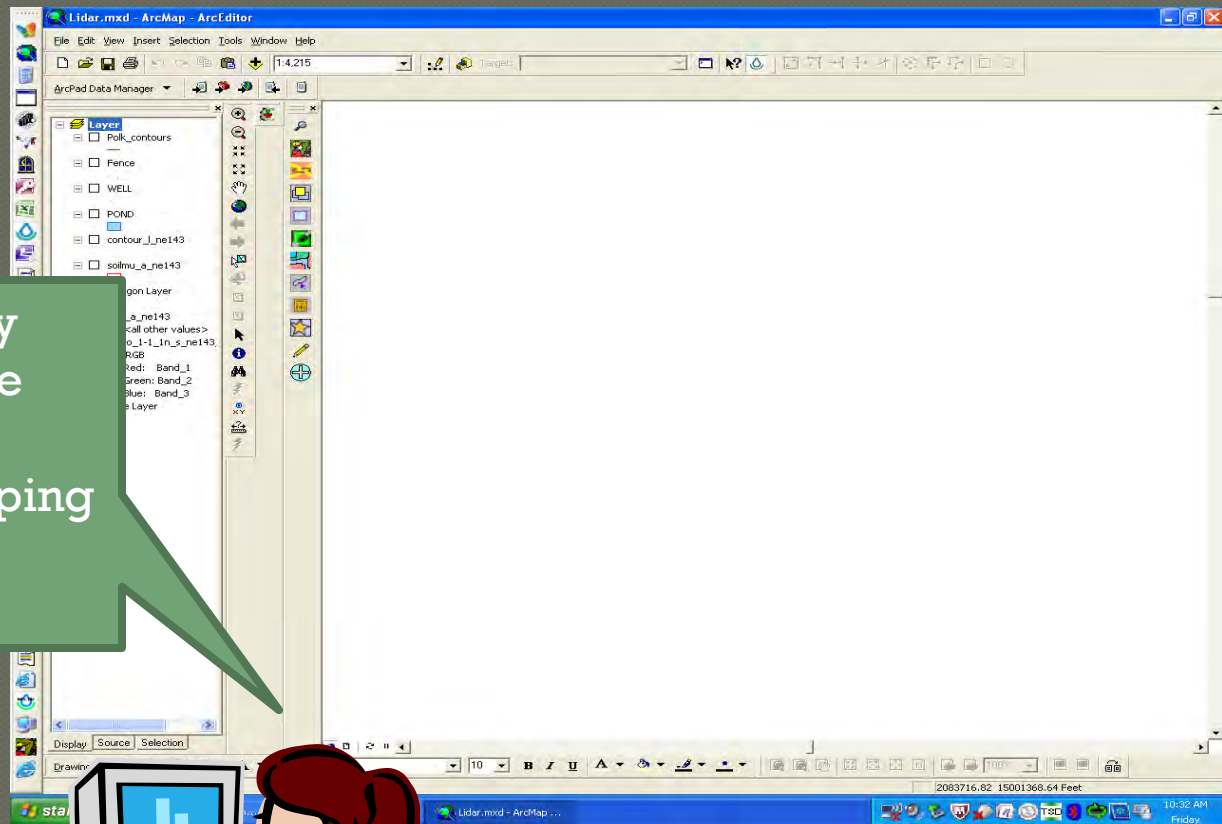
Creating a map of your
farm is just like adding
layers to a cake.

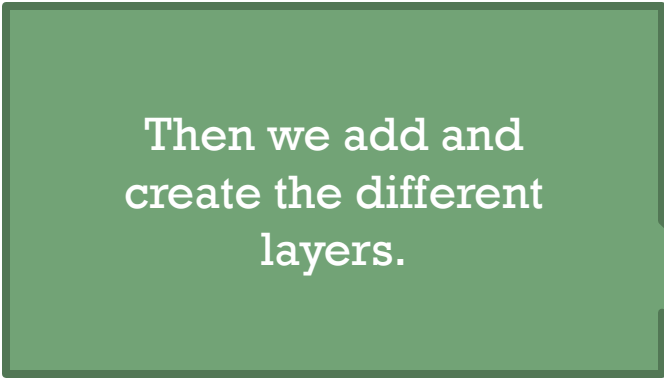


The layers you add to the map
determine the results.



You start by
opening the
program.
For basic mapping
we use
“ArcMap”

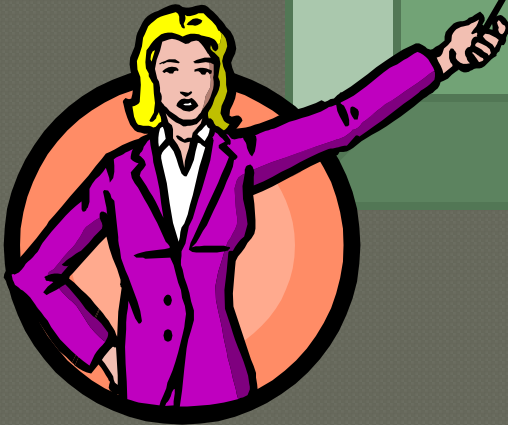




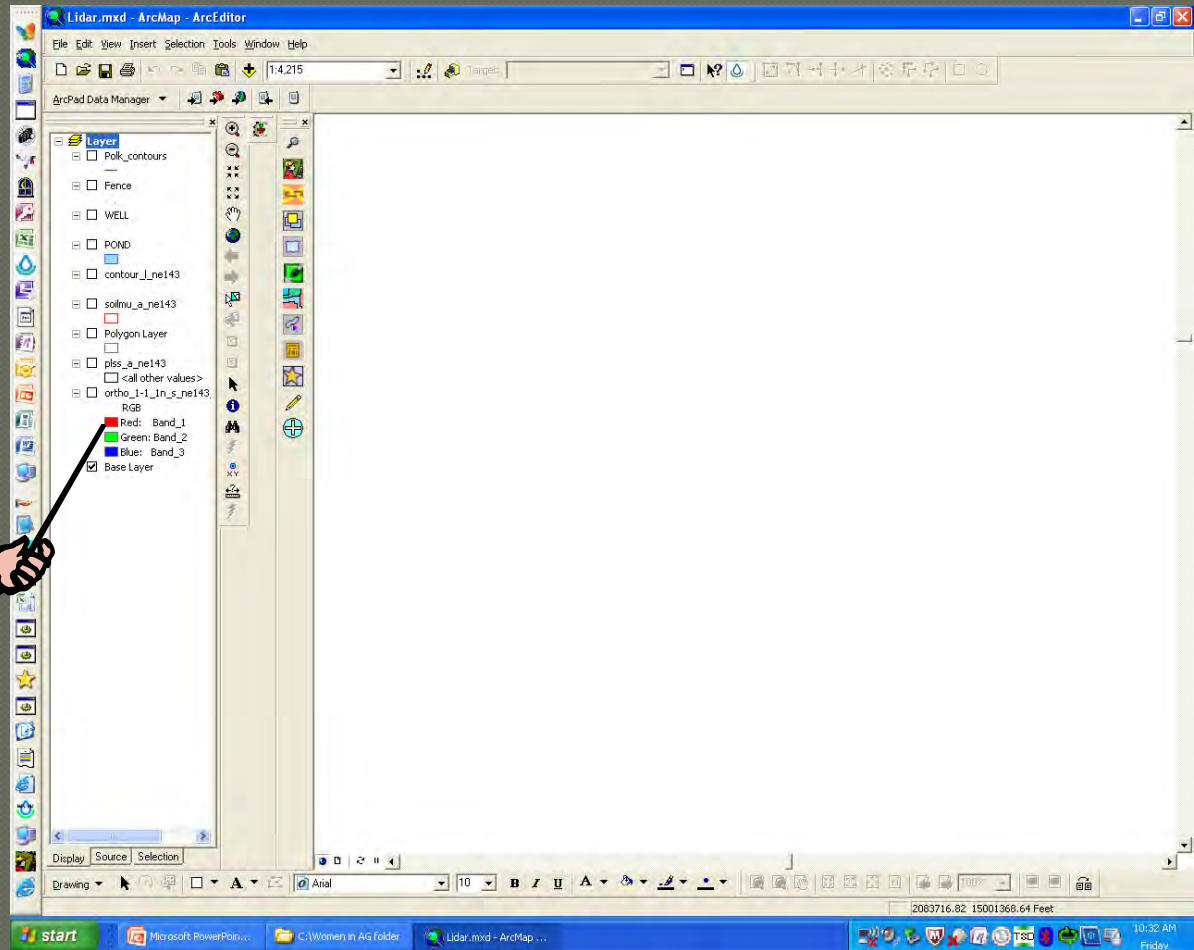
NOTE

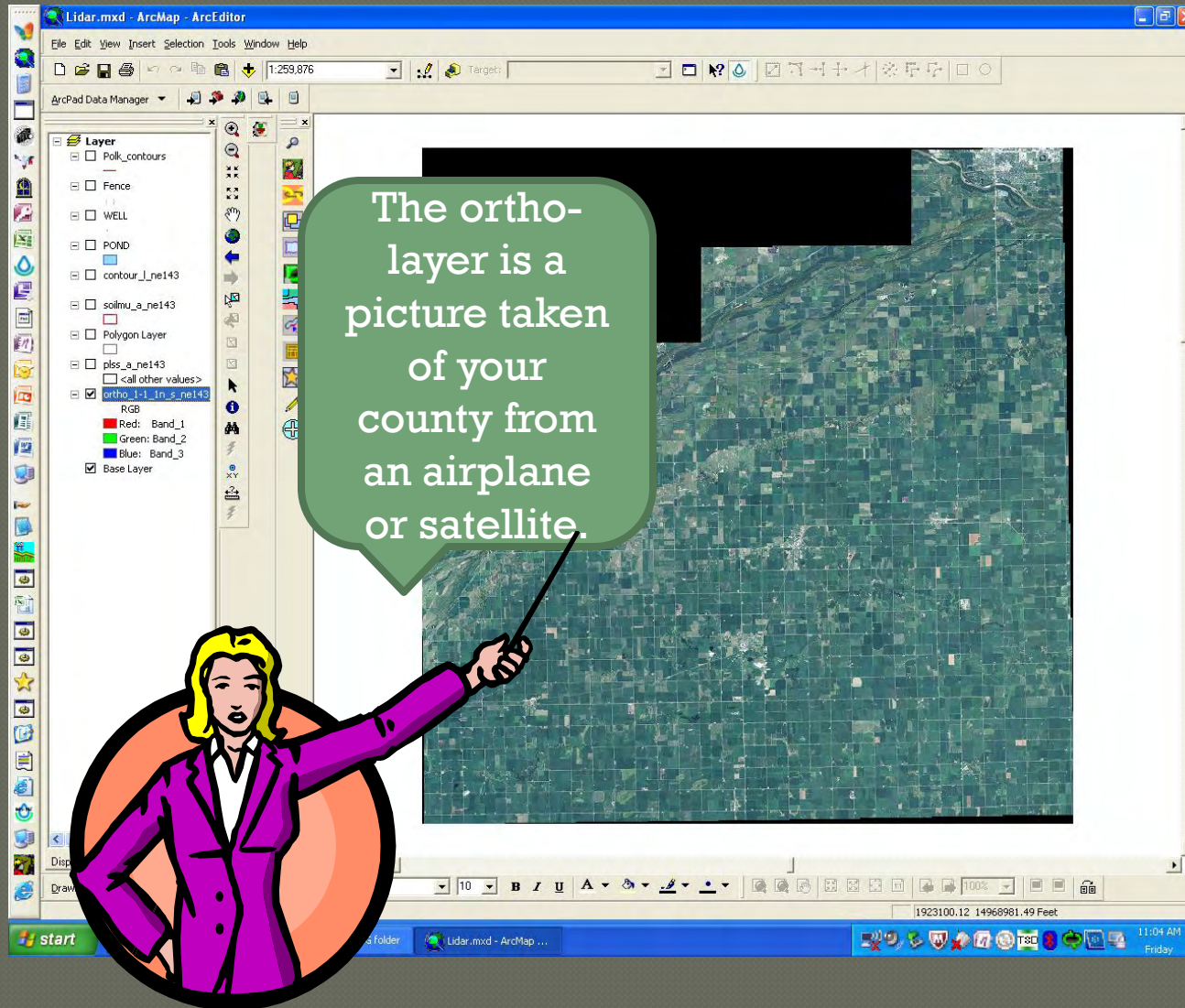
If you stop into our office
for a planning map of
your farm, be thinking about the layers
you would like to see.

Soils, fence, ponds, tanks, wells, terraces,
diversions, ground cover, and more.

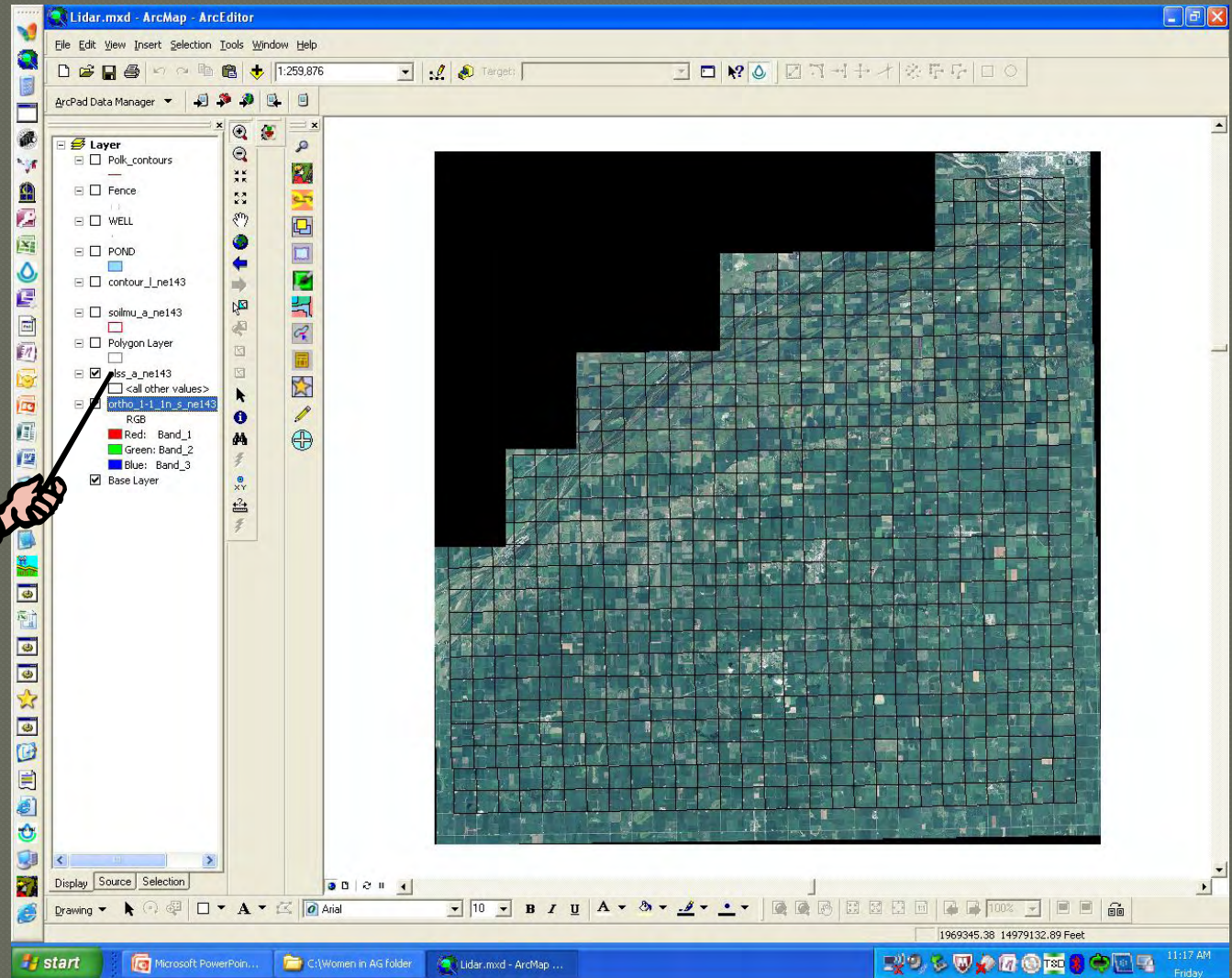


Our maps
usually start
with an
ortho- layer





Let's add
another layer.
This is the
PLSS
layer



Lidar.mxd - ArcMap - ArcEditor

File Edit View Insert Selection Tools Window Help

1:25

ArctPad Data Manager

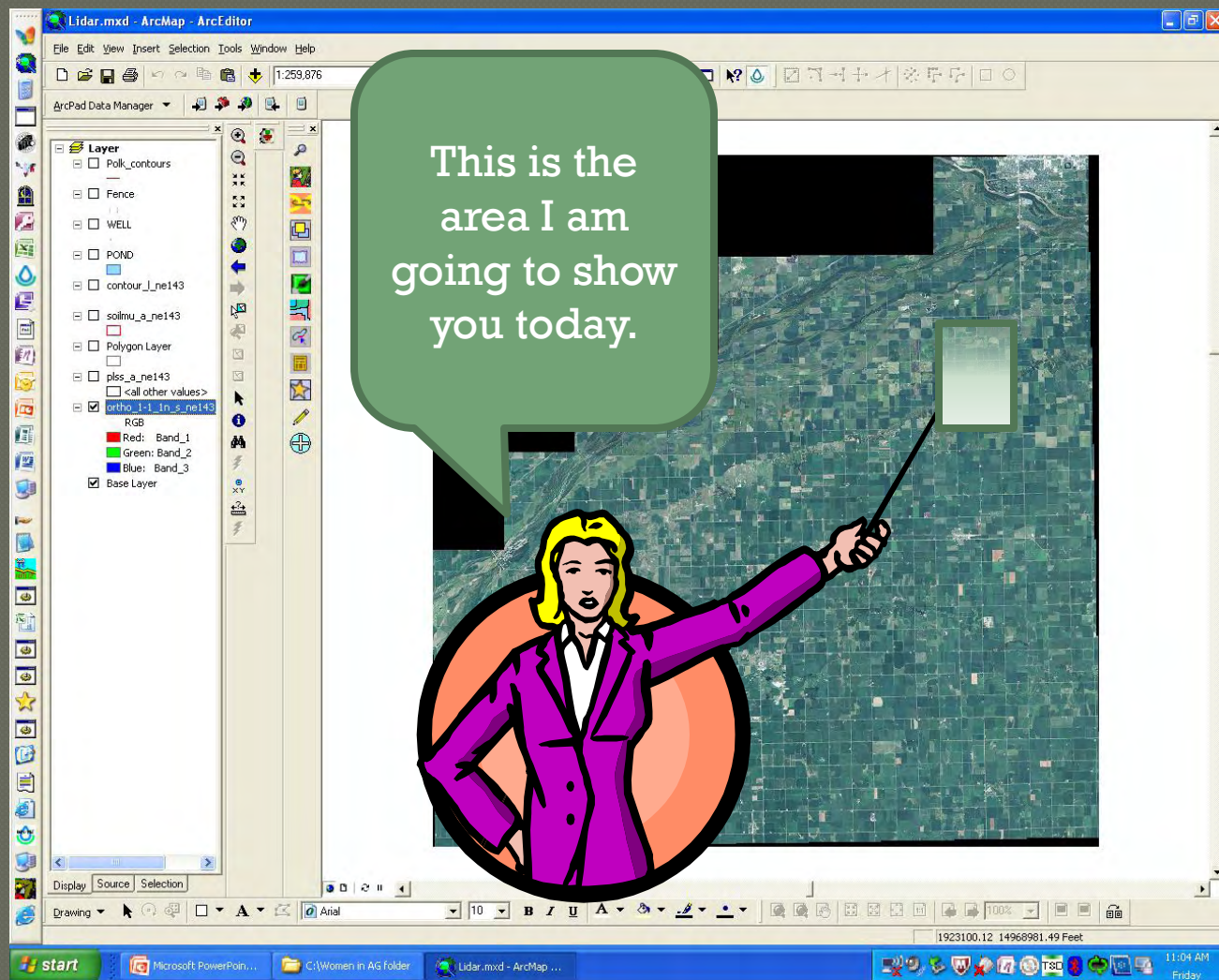
Layer

- ☐ Polk_contours
- ☐ Fence
- ☐ WELL
- ☐ POND
- ☐ contour_ne143
- ☐ soilmu_a_ne143
- ☐ Polygon Layer
- ☒ plss_a_ne143
 - ☐ <all other values>
- ☒ ortho_1-1_in_s_ne143
 - RGB
 - Red: Band_1
 - Green: Band_2
 - Blue: Band_3
- ☒ Base Layer

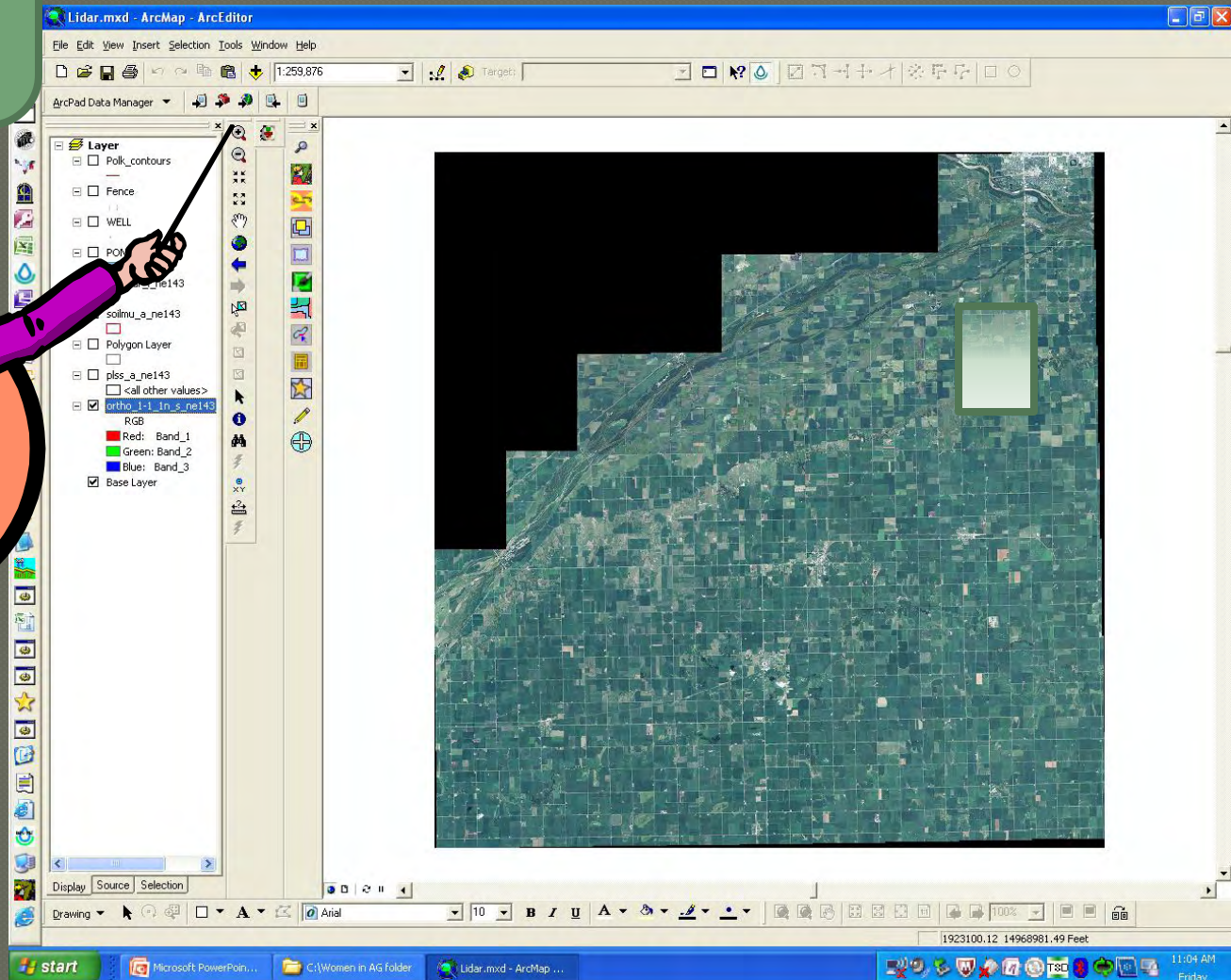
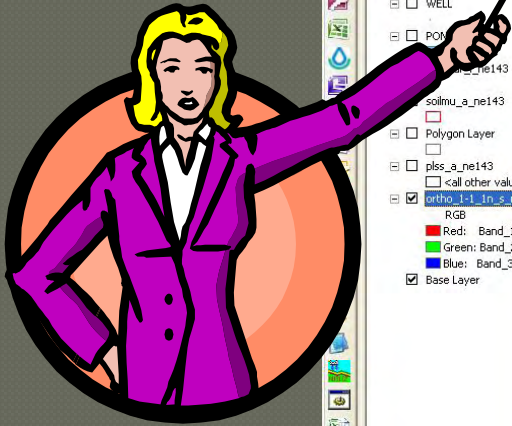
Each of the squares on the map represents a full section, or one square mile.

1969345.38 14979132.89 Feet

start Microsoft PowerPoint... C:\Women in Ag folder Lidar.mxd - ArcMap ... 11:17 AM Friday



I will use the zoom tool to select the area I want.



Lidar.mxd - ArcMap - ArcEditor

File Edit View Insert Selection Tools Window Help

1:21,792

ArcPad Data Manager

Layer

- ☐ Polk_contours
- ☐ Fence
- ☐ WELL
- ☐ POND
- ☐ contour_line14
- ☐ soilmu_a_ne143
- ☐ Polygon Layer
- ☒ plss_a_ne143
- ☐ call other v
- ☒ ortho_1-1_in_3

RGB

- Red: Band
- Green: Band
- Blue: Band_3

- ☒ Base Layer

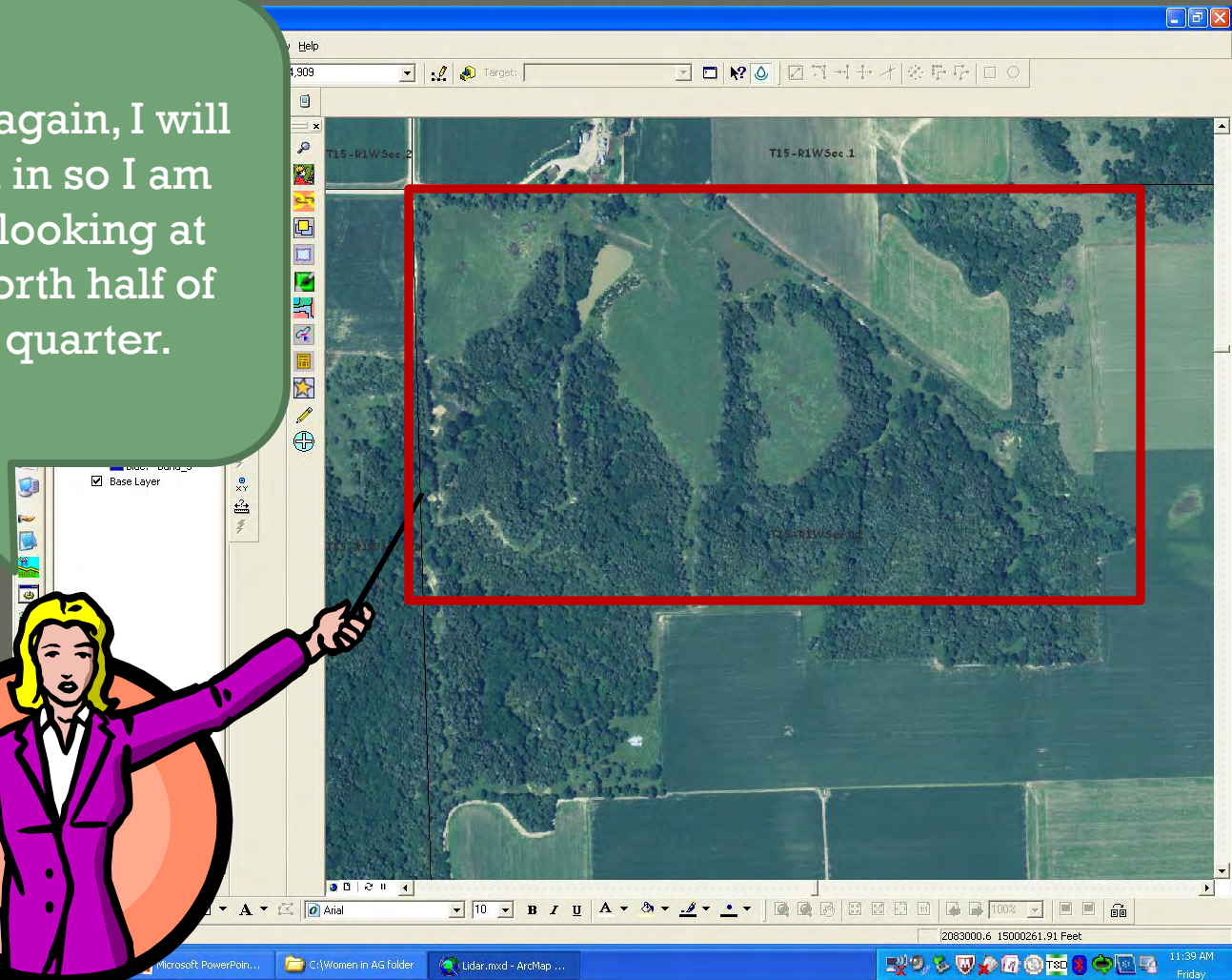
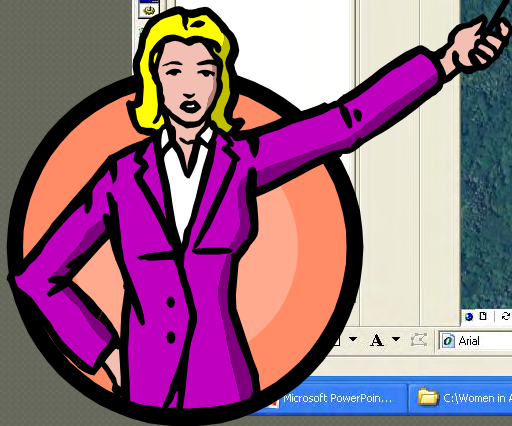
Now I am going to zoom in a little closer to the NW 4 of Section 12 Township 15 Range 1 West

start Microsoft PowerPoint... C:\Women in AG folder Lidar.mxd - ArcMap ...

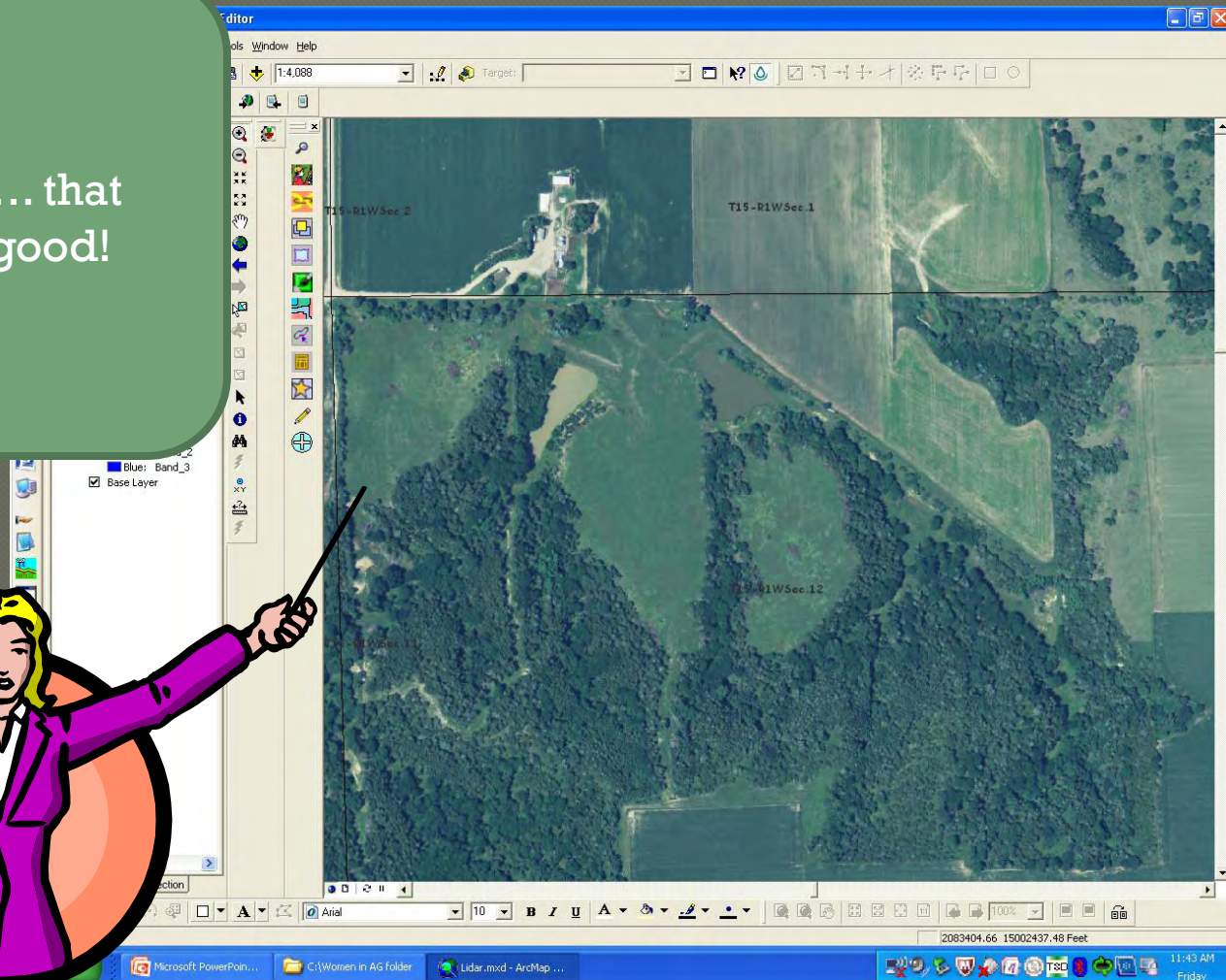
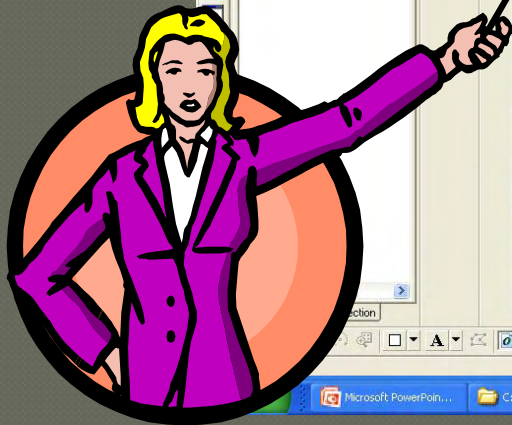
2078133.91 14999722.54 Feet

11:32 AM Friday

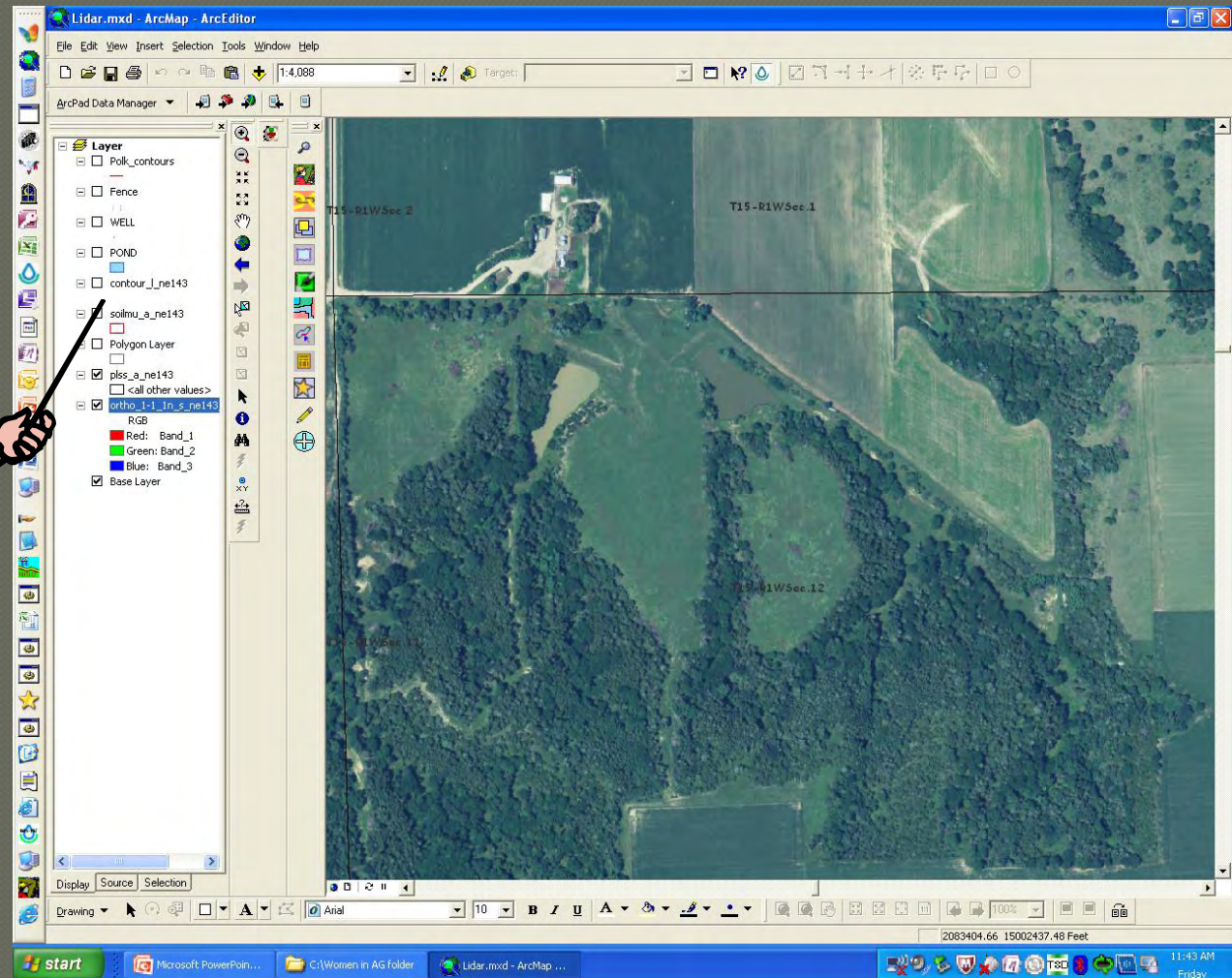
Once again, I will
zoom in so I am
only looking at
the north half of
the quarter.



There.... that
looks good!

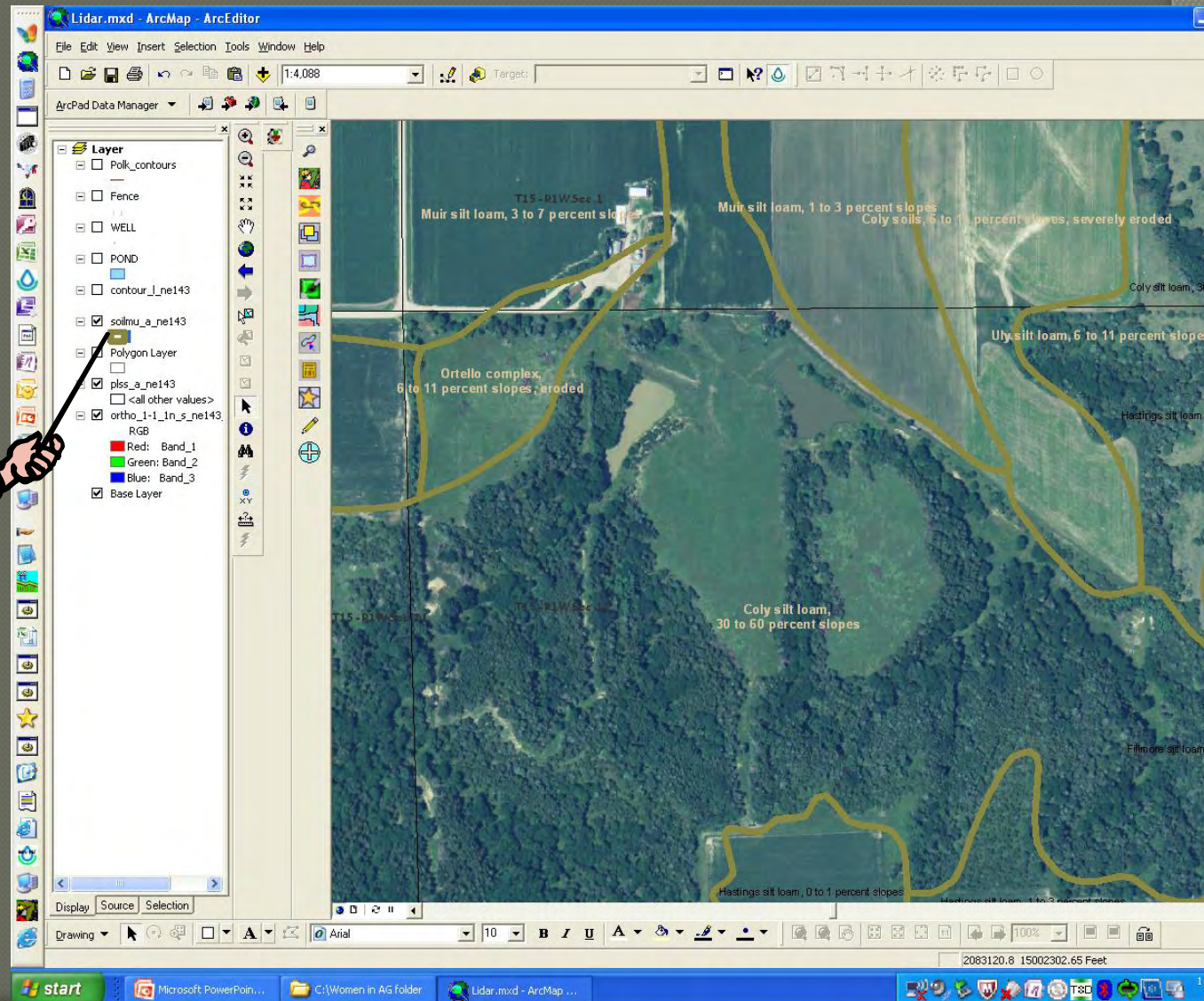


Now let's add a couple more layers.
Some of the layers are already in my computer.....

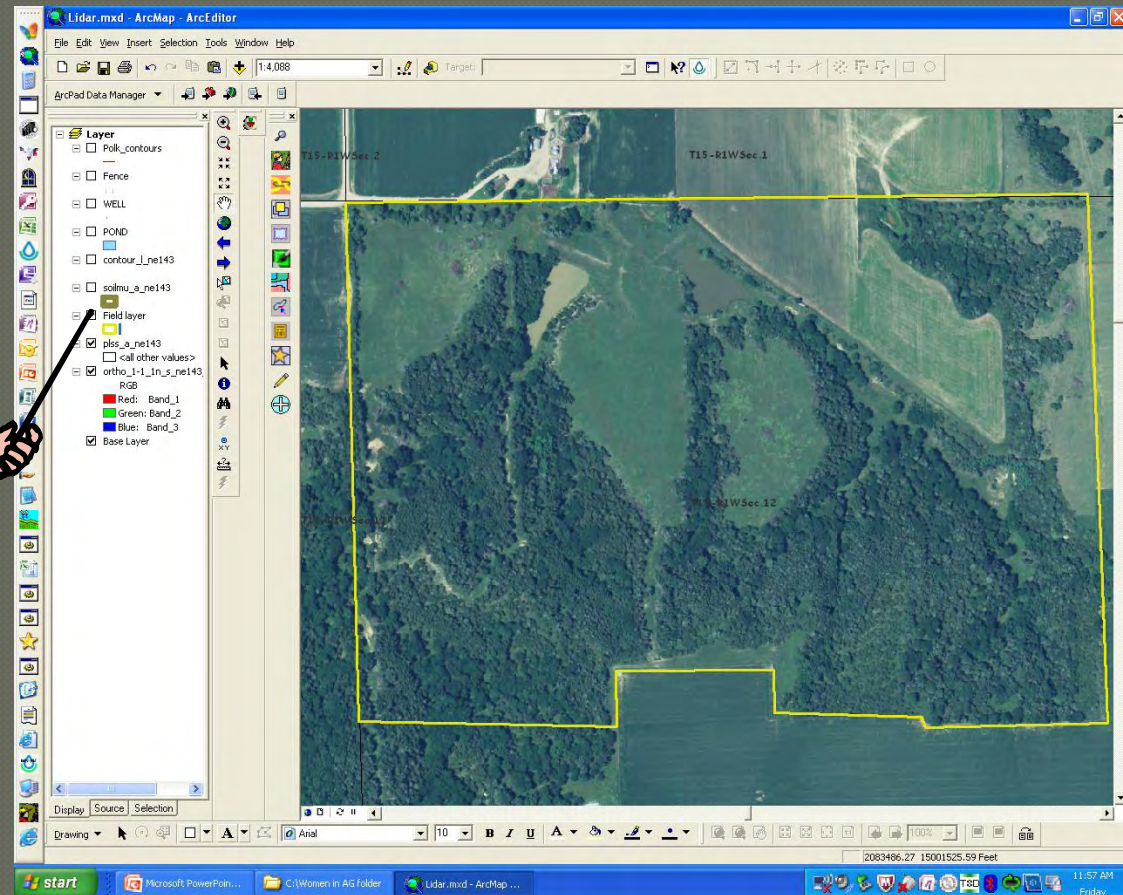


For example
the soils layer.

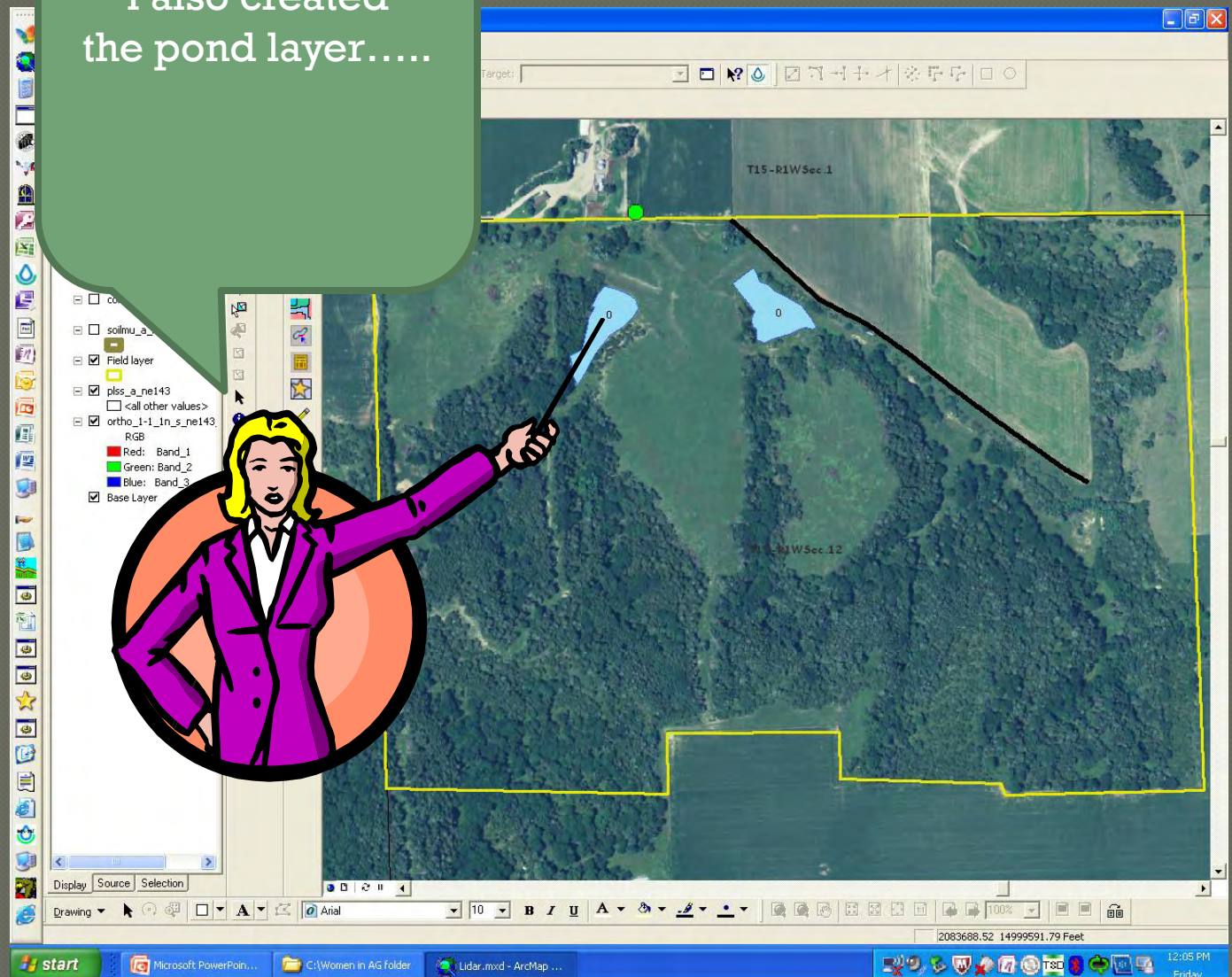
Some layers you
and I have to
create.....



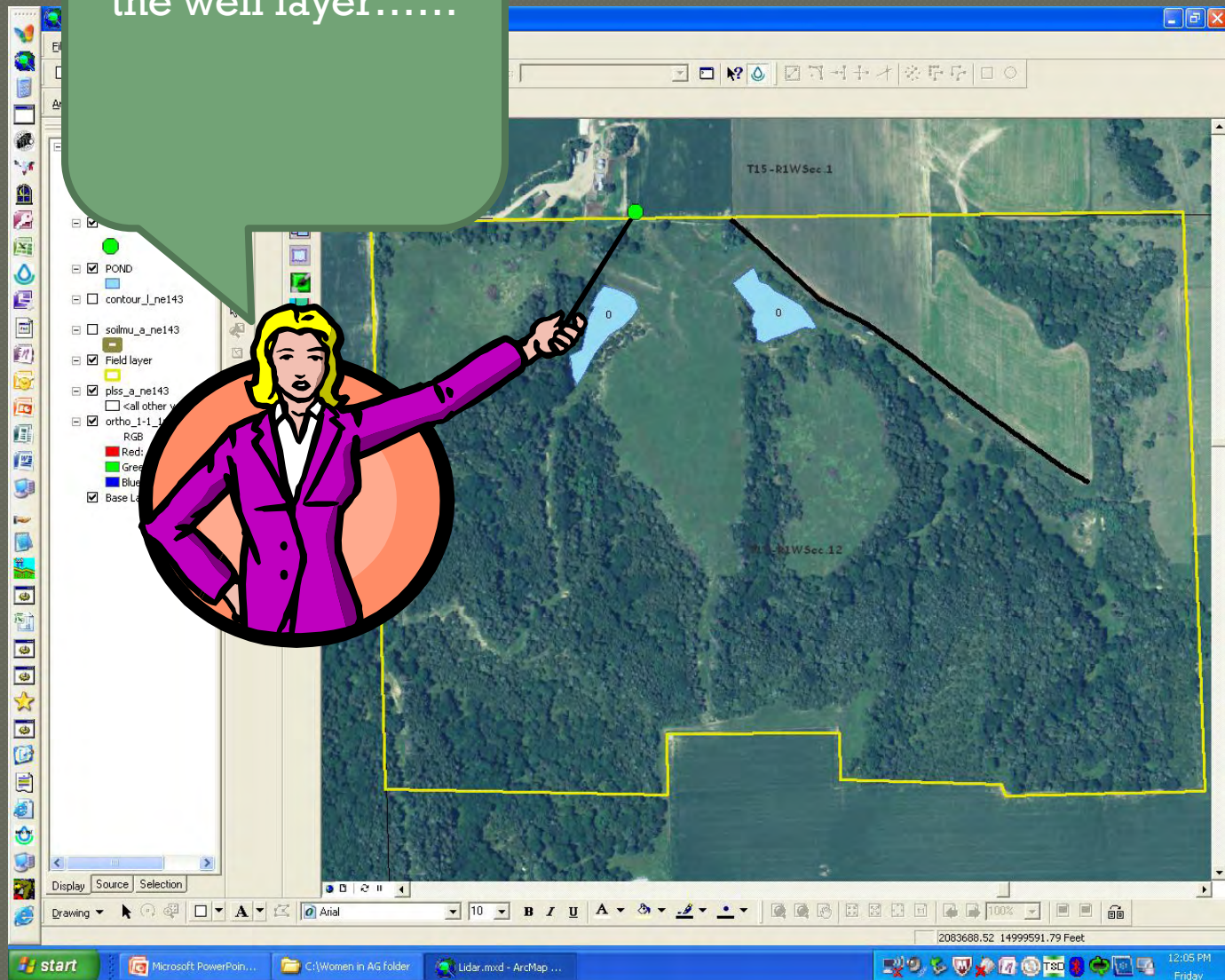
I drew this
field layer.....



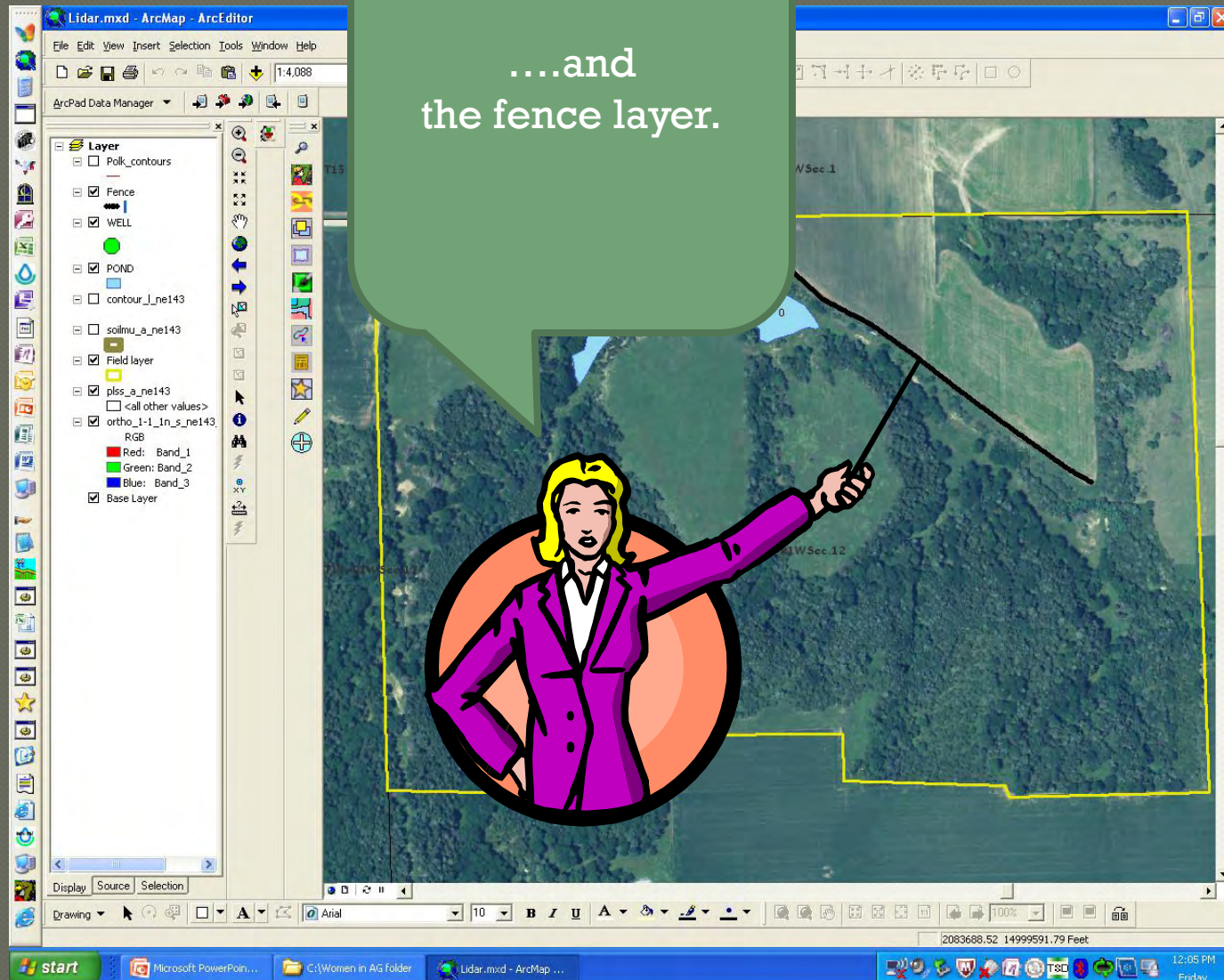
I also created
the pond layer.....



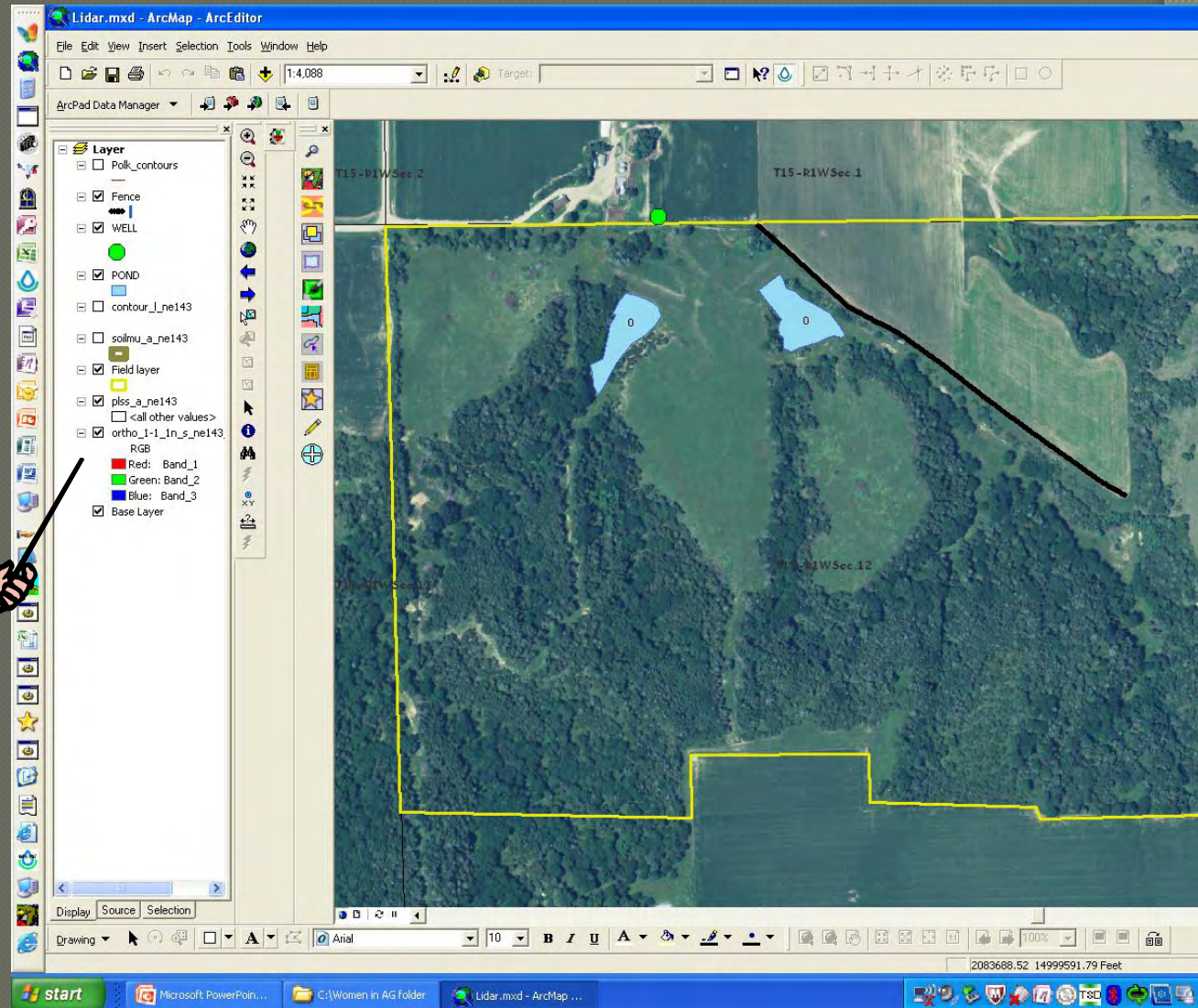
the well layer.....



....and
the fence layer.

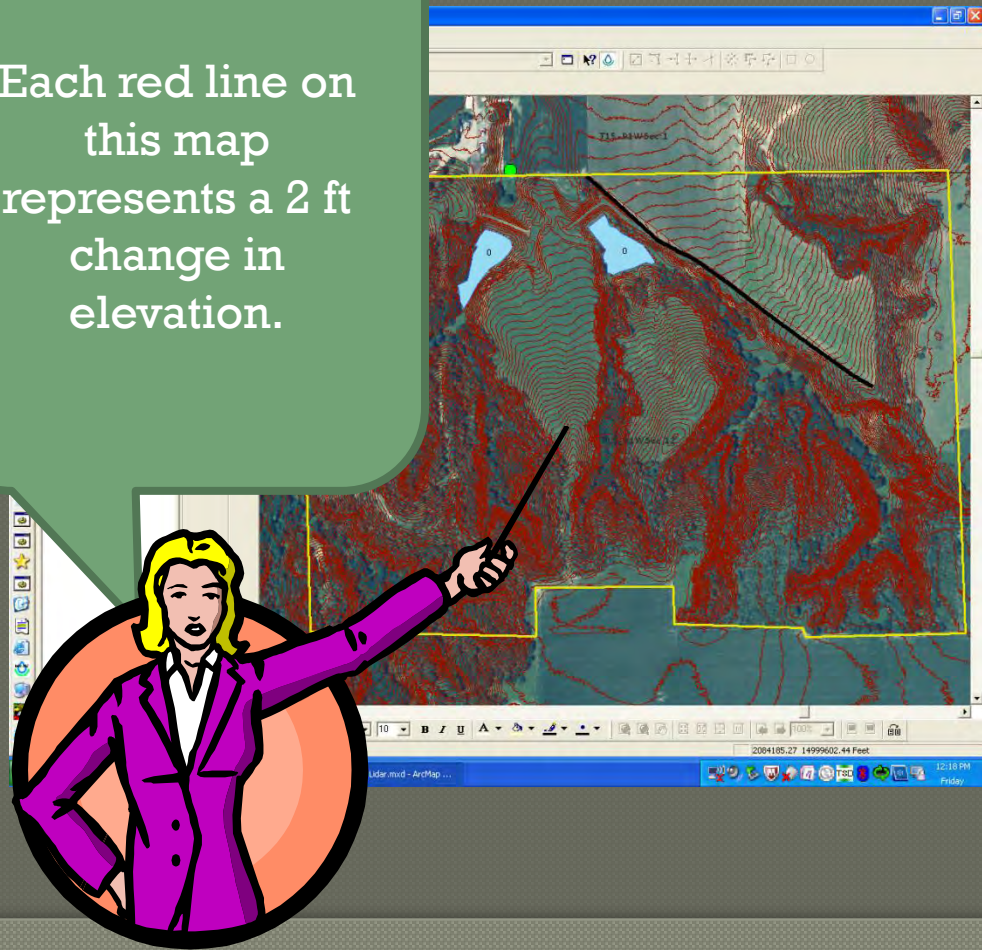


If you were to stop by the NRCS office in your county, the staff will help you create a map with the layers you need for your farm plan.



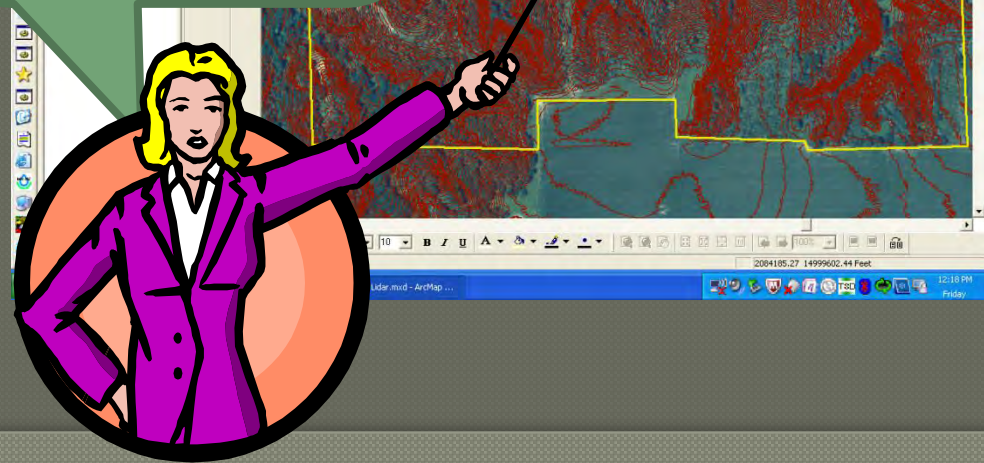
Let's look at one of
my favorite layers.
This is the new 2 ft
contour layer.

Each red line on
this map
represents a 2 ft
change in
elevation.

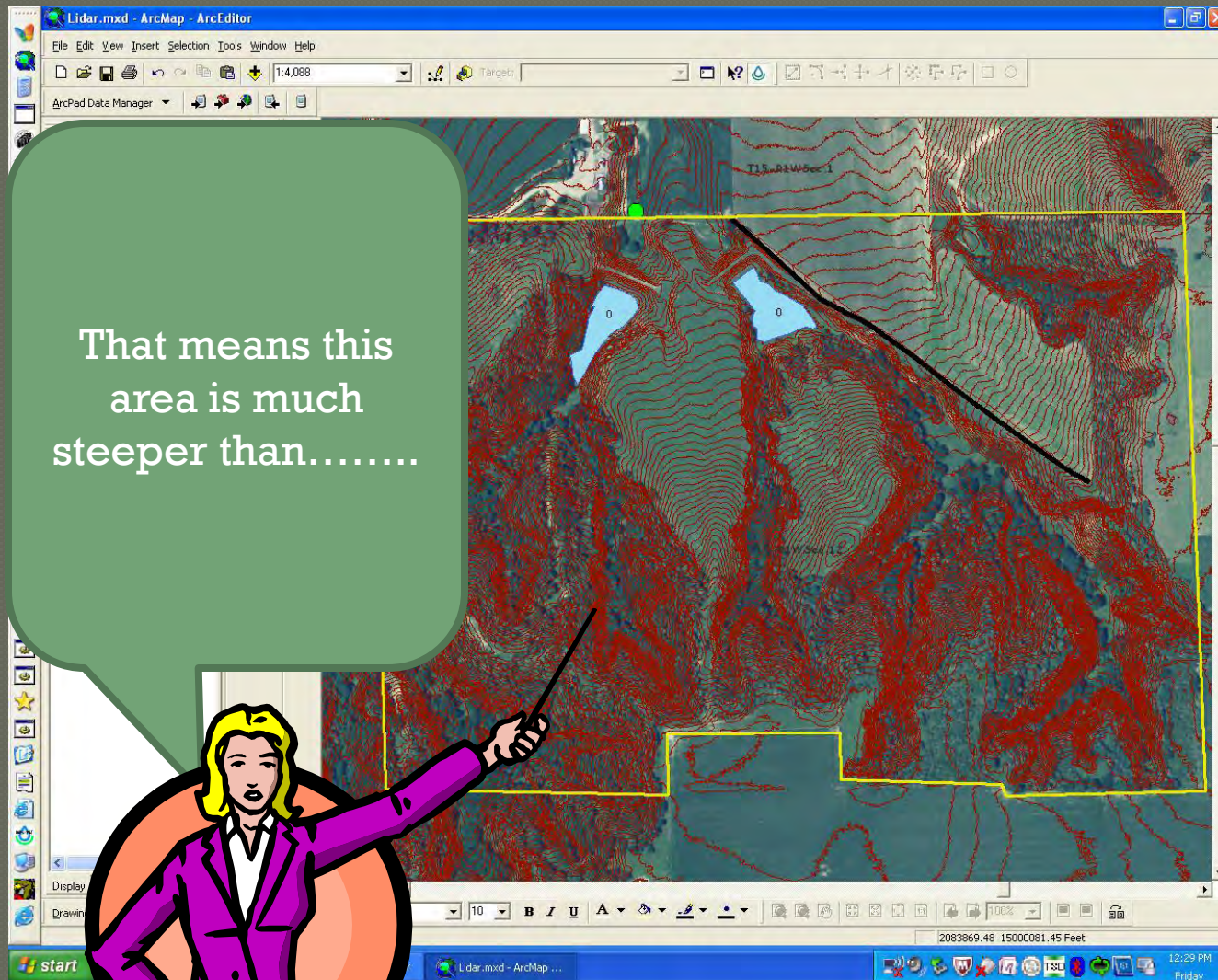


The closer the lines are together, the steeper the slope is on the ground.

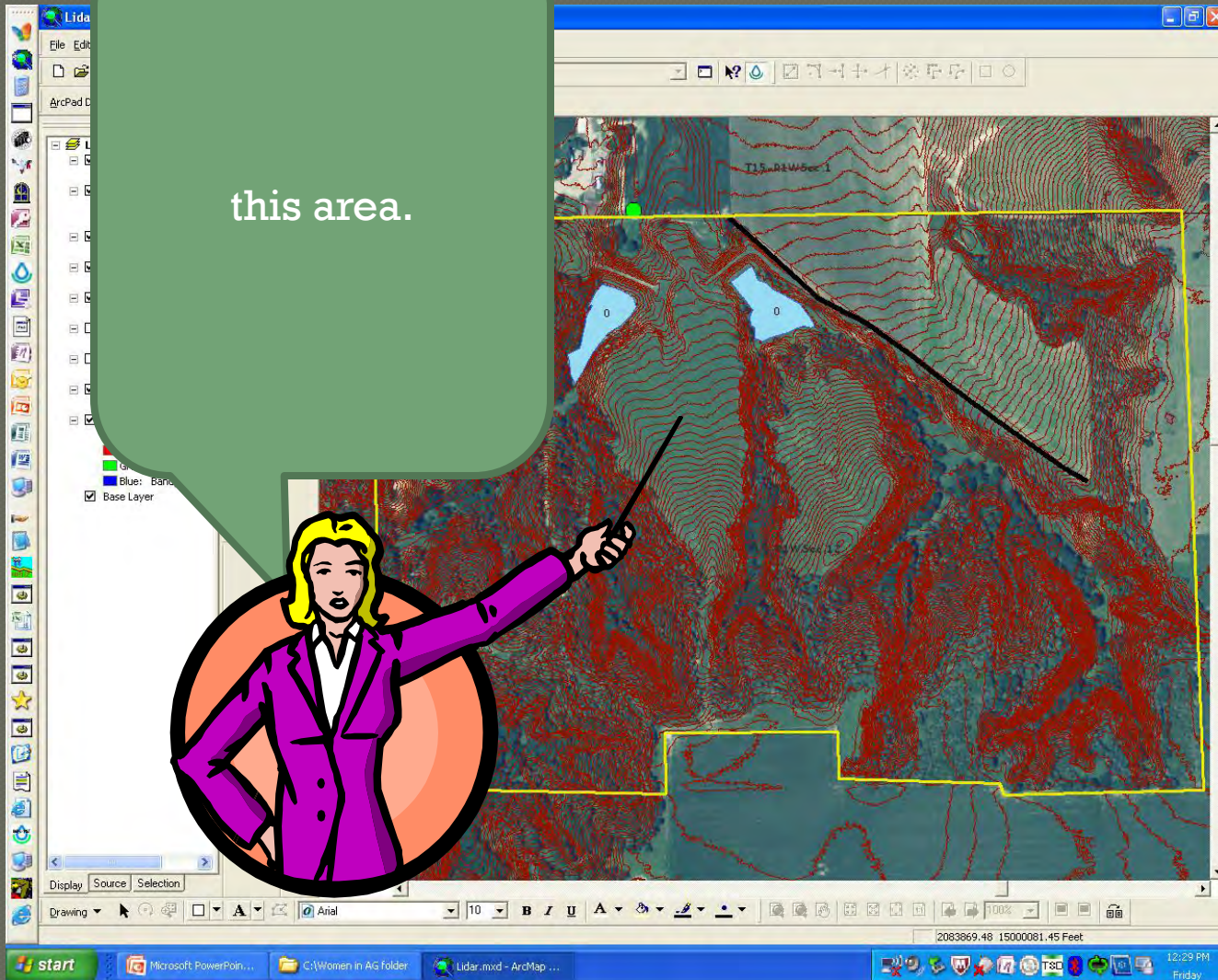
This area slants to the north. Water runs down the hill in the direction of the arrow.



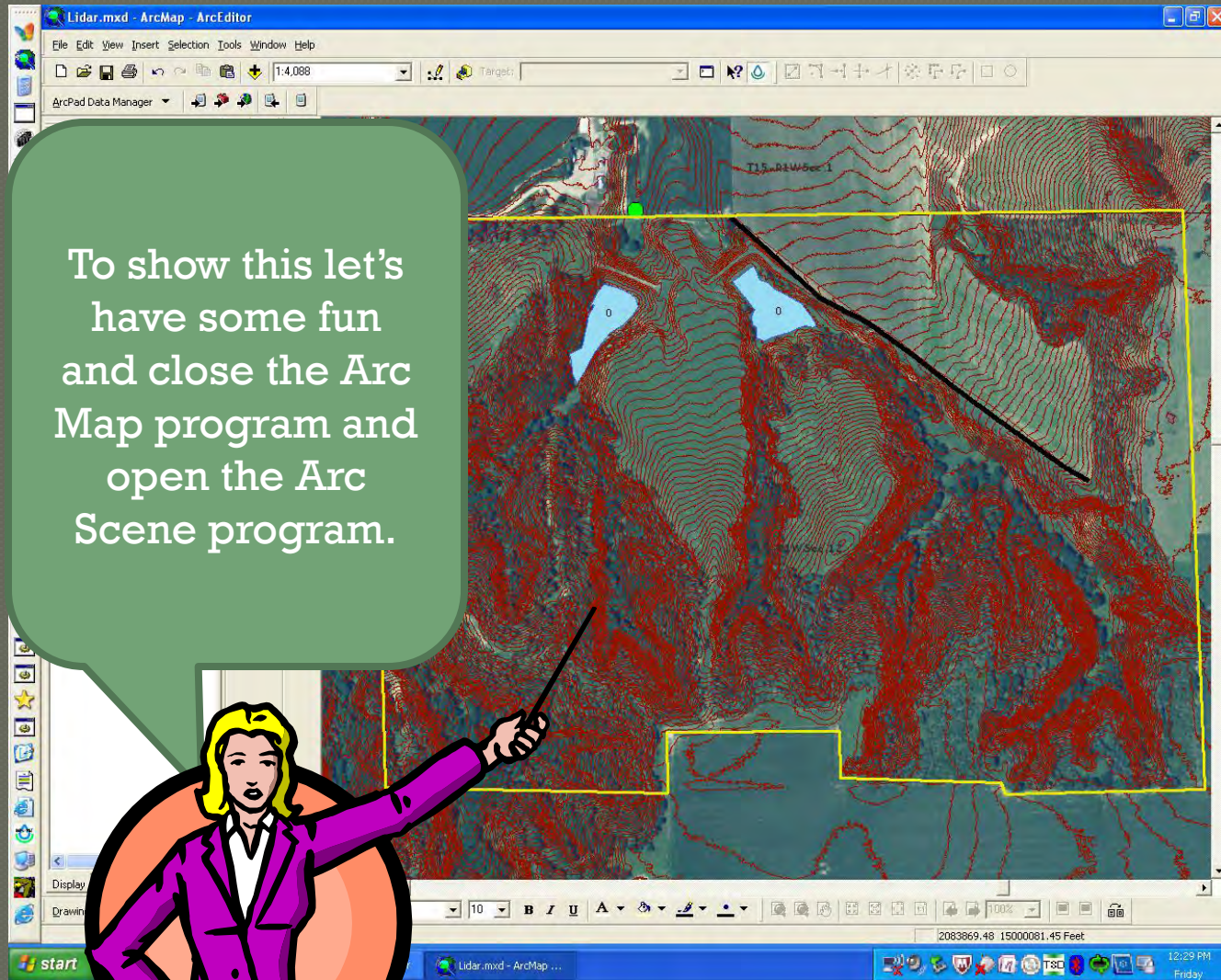
That means this
area is much
steeper than.....

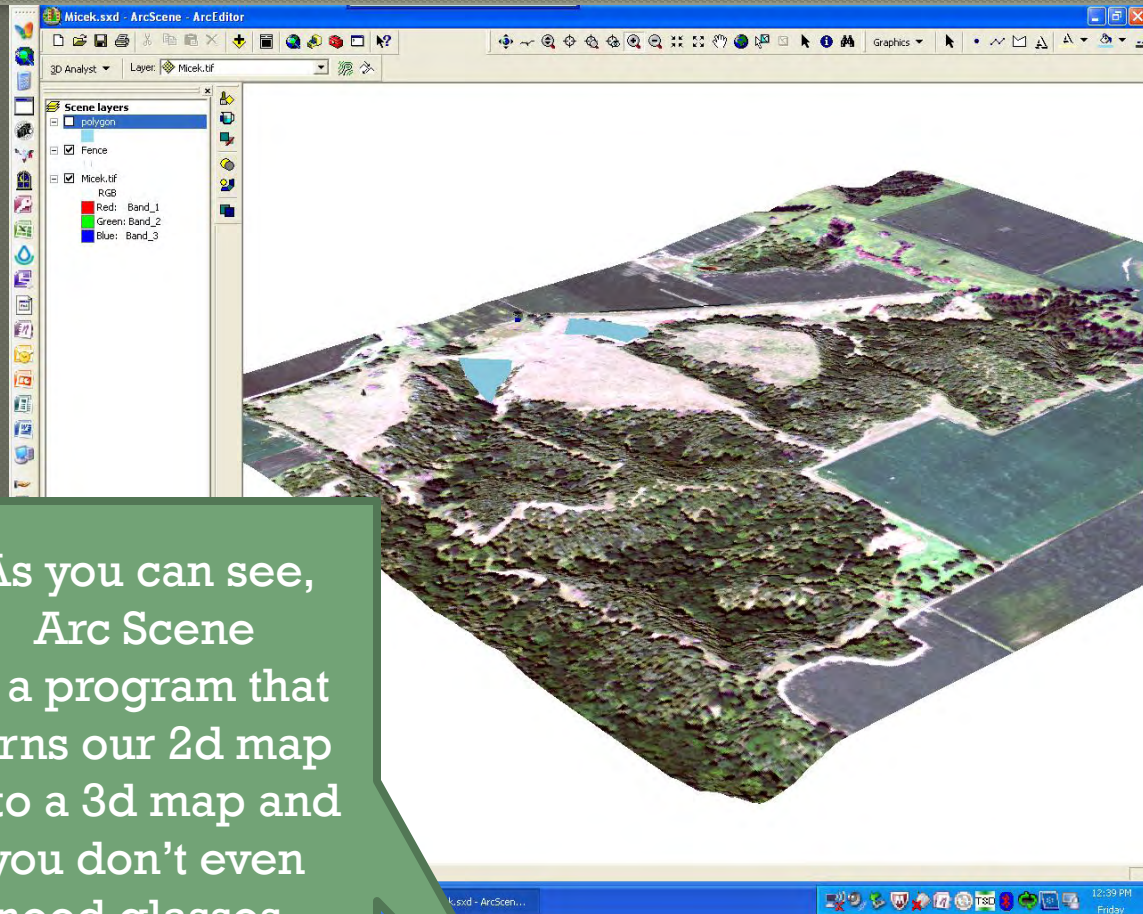


this area.



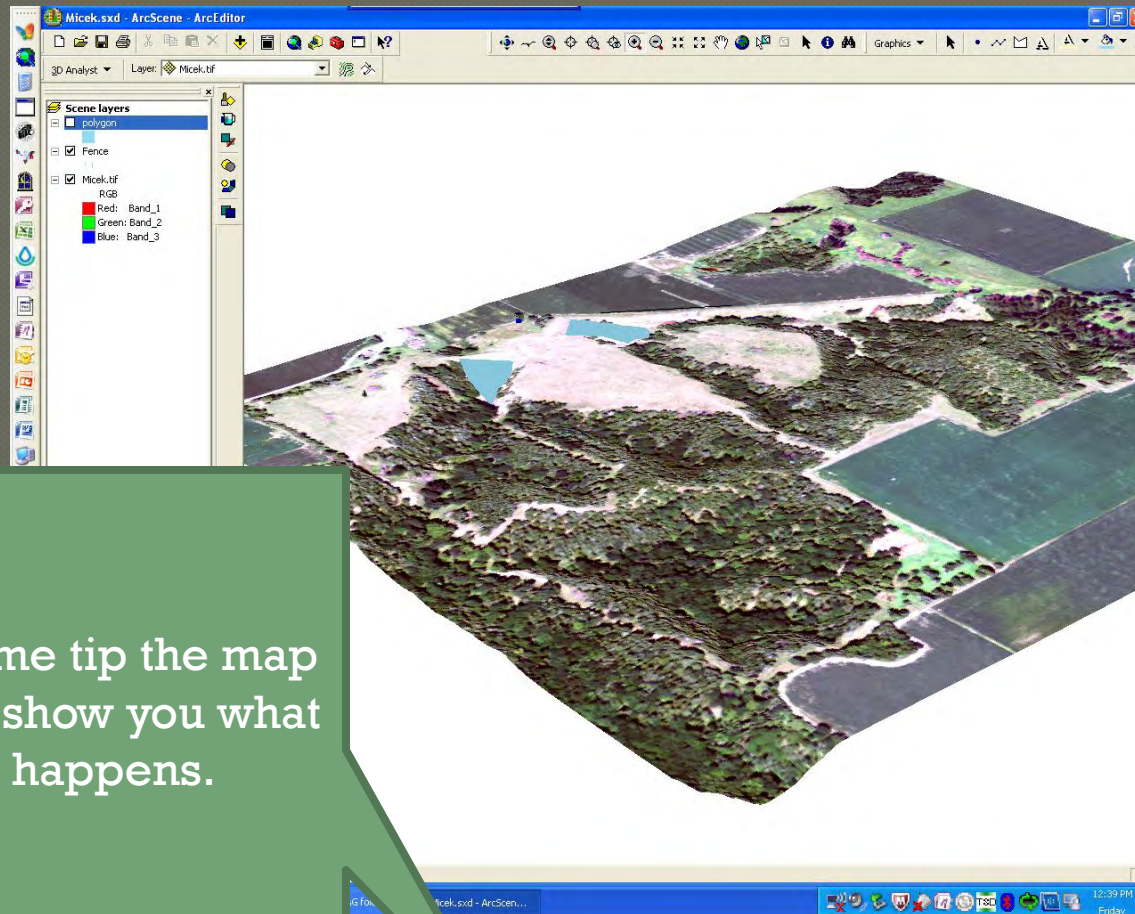
To show this let's
have some fun
and close the Arc
Map program and
open the Arc
Scene program.





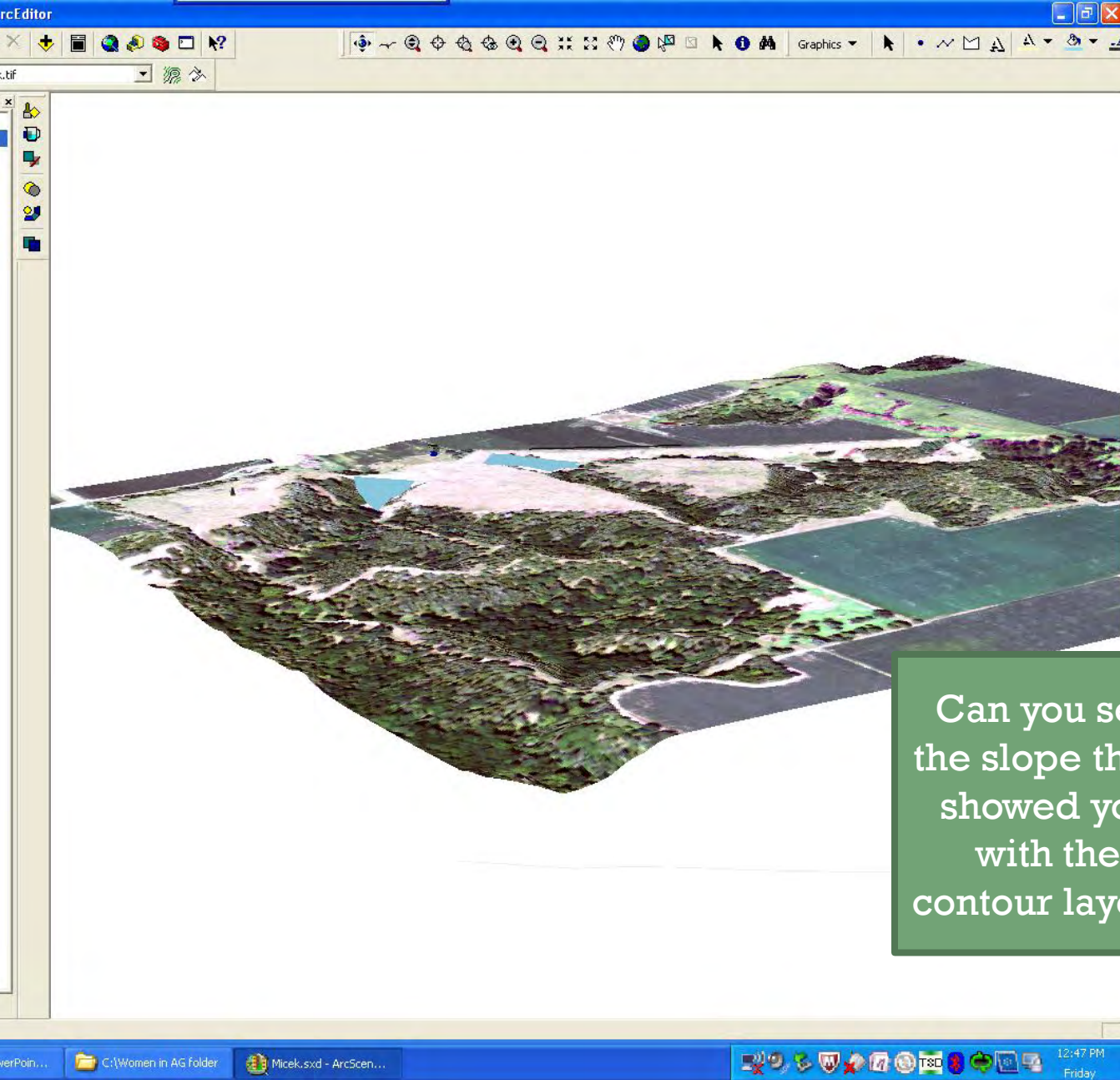
As you can see,
Arc Scene
is a program that
turns our 2d map
into a 3d map and
you don't even
need glasses.





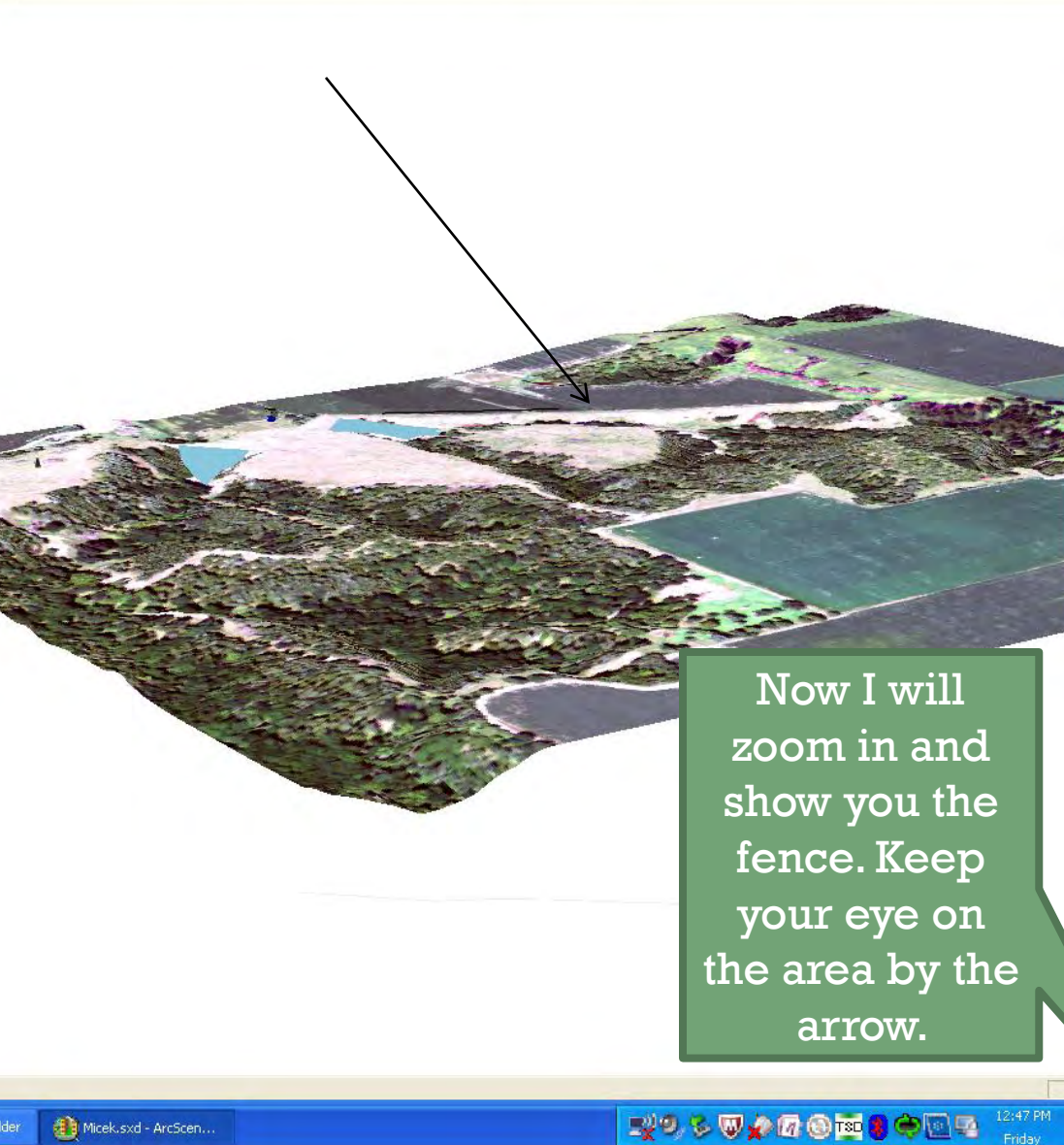
Let me tip the map
and show you what
happens.

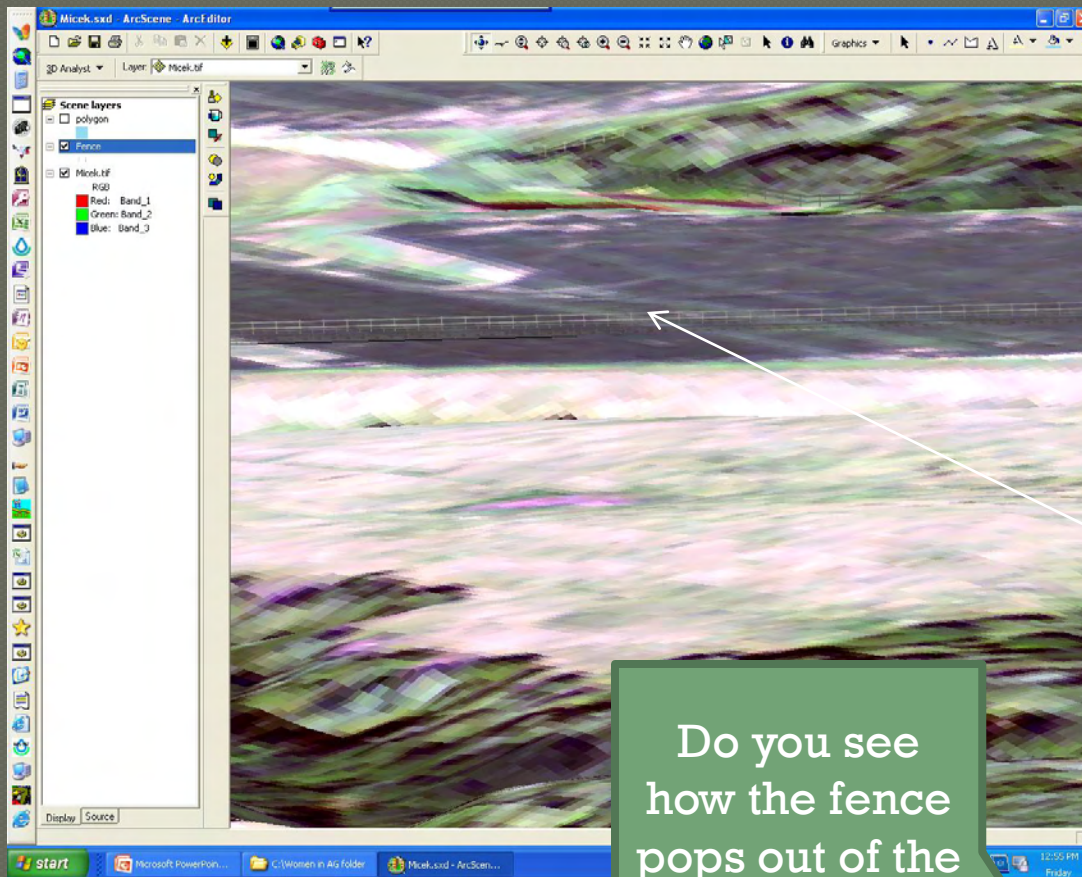




Can you see
the slope that I
showed you
with the
contour layer ?



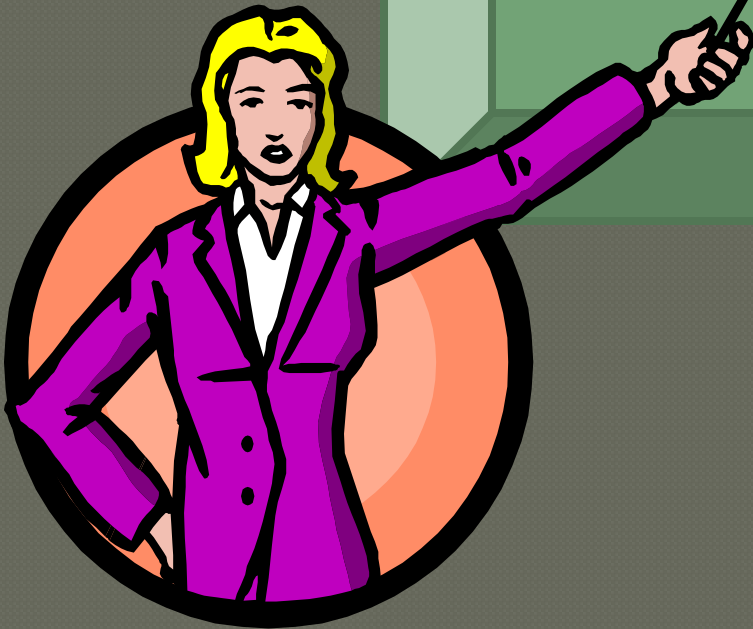




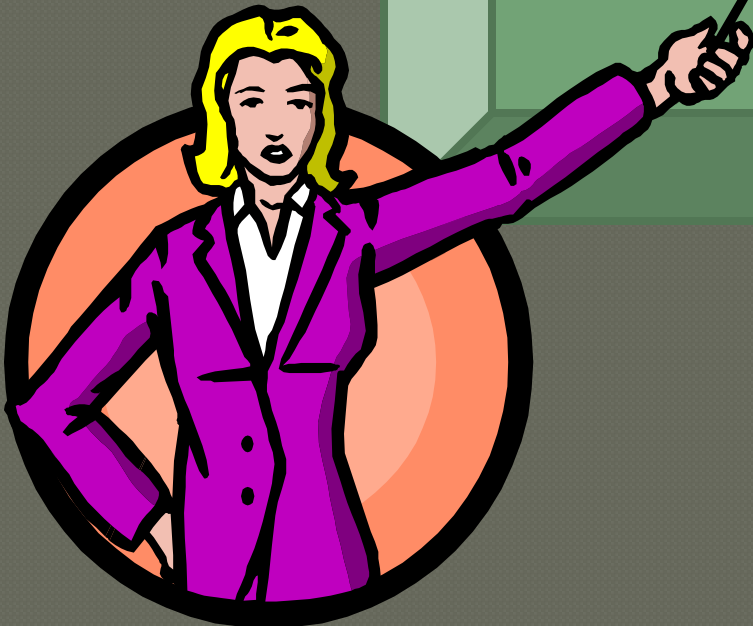
Do you see
how the fence
pops out of the
ground.



3d is something new to the office. It is a great planning tool and is fun to use. I'm still learning how to size objects, and when you zoom in, the photo's loose some of their clarity.



If you are interested in learning more about your farm , call ahead to your local NRCS office and make an appointment to learn more about your farm. All maps we create are free of charge, and if you like they can be emailed to you so you can make as many copies as you like.



Today I showed you how we create planning maps.

It's as easy as baking a layer cake.
Just let us know what flavors you would like.

