Our Mission
Safely move people and goods.
CNN Money that Williston strippers earn up to $3,000 a night. It's time Las Vegas lost its title as "stripper capital of the universe" to Williston, North Dakota.

The little oil boomtown in the Great Plains might only have two strip clubs—Whispers and Heartbreakers—but the exotic dancers there make more money than some doctors.
A long day during the winter...it is not like this ALL the time...
It is not really as bad as everyone thinks it is....!
By the way...these are only found in the State park or on a few private hobby farms.... they don’t run around in the wild...
Beauty is really in the eyes of the beholder....the Missouri River in the middle of January.
Farming used to be the #1 industry... 
ND still is the leading producer of durum in America... and the #2 producer of lentils.
Everything is becoming “Mega”...putting added stress on our current infrastructure... This includes power, housing, labor market, our highways and roads and our water supply.
North Dakota is a leader in wind energy with more than 800 turbines in 20 counties. Twelve percent of the state's total energy comes from the wind industry. 10/2013
Trying to keep everything in balance....
A moose migrates in the shadows of North Dakota's Coal Creek coal-fired power plant, the largest in the state.
Oil is HUGE... Eco-Pad
Remember this slide
Still trying to maintain that delicate balance ...
Three out of our top four industries...interacting....oil, farming and wind power...
Constant and fast paced changes makes it difficult for the ND DOT to plan for new or improve existing highways.
Each well requires approximately 2,700 separate trips by truck from start to completion...
A new well can be drill in approximately 22 days....at a cost of $9.5 - $10M each!
The Bakken produces nearly 1,000,000 barrels of oil per day and it shows no signs of slowing down. But with all the oil pumping out of the ground, it has to be transported, somehow, to refineries for processing. BNSF has added six additional trains every day and they’re carrying more than 100 cars of oil.
The American Association of Railroads reports that nationally about 400,000 railcars of oil were delivered in 2013 – up from only 11,000 in 2009. Most Bakken oil is going to refineries in the East and Louisiana; BNSF reports that it averages a little more than one train a day from North Dakota to Northwestern refineries.

More growth is on the horizon. There are 11 expanding or proposed Northwest coast ports and refineries which could accept up to 800,000 barrels a day of oil – about 11 100-car trains arriving daily. The new oil port proposals are under study and public hearing process and being challenged by a coalition of environmental and health groups.
Equipment

Crude oil and LPGs are shipped in tank cars that are owned or leased by the shipper.

A single tank car can carry approximately 680-720 barrels of crude oil.

Frac sand and most drilling materials are shipped in covered hopper or open-top railcars that may be owned or leased by the shipper or supplied from BNSF.

A single hopper car can carry approximately 196,000 to 220,000 pounds of frac sand. Equivalent to 2.5 to 3 semi-trailer loads without load restrictions.

OCTG-drilling casing, is often shipped in gondolas or bulkhead flatcars that are supplied by BNSF.

A single gondola or bulkhead flatcar can carry approximately 163,000 to 205,000 pounds of OCTG (oil country tubular goods - pipe).
A semi tanker truck can usually carry 7,500 to 9,000 gallons of water...
Each single well requires approximately 3.0 to 3.5 million gallons of water for fracking to and 100 truck loads of sand per well to complete.
Part of the fallout of that velocity is the notable gas-flaring problem on the North Dakota fields. Glowing torches of gas, burning against the night sky, light the horizon around Williston (see photo). The environmental organization CERES in Boston estimates the fields are burning off the greenhouse gas equivalent of 1m cars.
200 wells a month... each one... 3 million gallons of water... 2700 trucks... $10 million...!
Since the 1st “fracked” well in ND in 2006...the landscape undergoing tremendous change...
Trying to co-exist...Farmers, ranchers, landowners, oil and pipeline companies, power companies...and the ND DOT!
These scenes are very rare anymore... anywhere in ND....
But if you look hard enough you can find them....
But when you find them...they are magnificent!
Today there is approximately 8,000 producing wells in ND...the NDIC predicts there will be upwards to 35,000 - 60,000 producing wells over the next few years.
Constantly pushing technology...
A pilot program...constant change... Innovation...Technology....Adaptation....
1,320’ & 660’ Pilot Density Projects: 2013-14

**1,320 ft. same-zone spacing**
- 3 project areas:
  - Hawkinson, Tangsrud, and Rollestad
- 34 new wells (gross)
- Micro-seismic monitoring (Hawkinson)

**660 ft. same-zone spacing**
- 4 project areas:
  - Wahpeton, Lawrence, Mack, and Hartman
- 31 new wells (gross)
“Frack Farms” ..... “Zipper Fracking”
ND is not alone...it maybe coming to your state...
12,000 trucks... 8,000 cars and pickups per day...
Temporary pipeline easements in the right away

**Pros**

- Reduces truck traffic on the highways and roadways...
- Salt water pipelines have yet to be allowed...
- Temporary pipelines in the ROW easement...only in unique or last resort situations...

**Cons**

- Allows for obstacles to be in the ROW... enhances the possibility of more severe or serious accidents.
- Public perception is compromised... appears that the DOT is in competition with landowners who stand to make a lot of money buy allowing an easement across their land. Currently the DOT does not charge...merely issues a permit.
Questions???