Family and Family Business: Thoughts on Life in the Bakken Dr. Glenn Muske Dr. Margaret Fitzgerald

NDSU NORTH DAKOTA STATE UNIVERSITY

Why the Interest in the Bakken?

- Brief history of NC-1030 and our recent work in disasters
- Redefine disaster as a disruption in the normal environment in which consumers and the family business operates
 - How rapid and extensive change influences both of these along with the larger community
 - Creates consumer, economic, regulatory and societal issues
- Bakken Natural lab, good context to study disruption (positive and negative) in a large area
 - Watford City anticipated growth 1400 residents (2008) to ??15,000 (2015)
 - Williston anticipate growth 25,915 (2012) to 31,143 (2014) 20%
 - Petroleum industry is \$6.6 billion or 12.3% of state's total economic activity

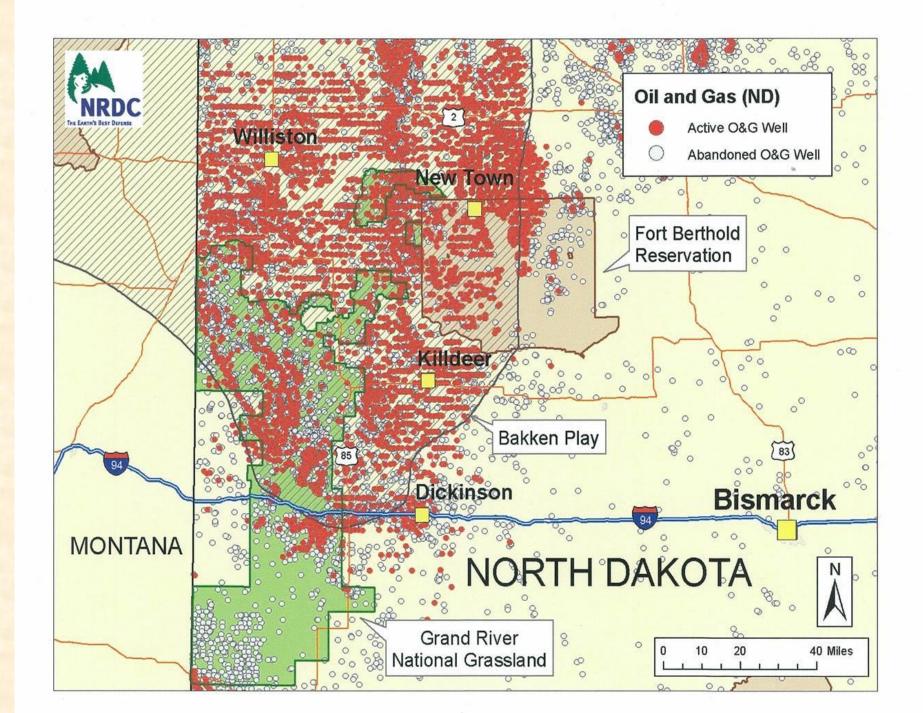
Disruption brings:

- Population changes (growth, diversity,); housing; cost of food/consumer goods; employment (services) ; environmental concerns; safety; etc.
- Examples:
 - People who can no longer afford to live in their apartments as rents have skyrocketed.
 - Williston Head start, located in an old school building, was kicked out as the school system needed the building back to handle growth
 - Environmental spills, train wrecks, dust, traffic
 - Yet income and wealth is making up for the yucky stuff
 - Plus children have the opportunity to return home, to the farm/ranch/area

Additional Examples

- Income inequality
 - Avg ND salary \$48,740
 - Bakken avg salary \$90,171
- Issues and inequality based on roles:
 - Land owner
 - Mineral owner
 - Actual person using the land
- Native American



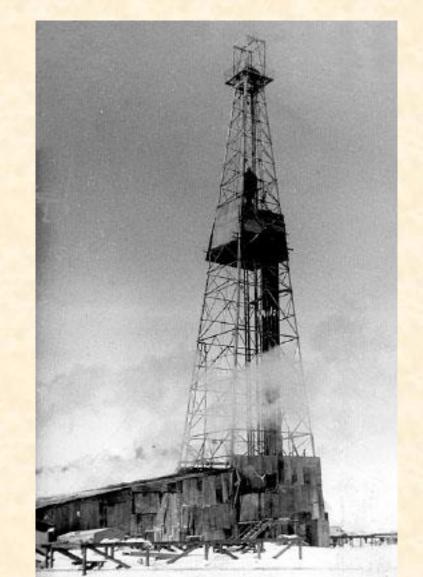


Active Drilling Rigs - 1/7/2015 - 166 5/13/2015 - 63

PRODUCING OIL WELLS

12/2007 12/2013 11/2014

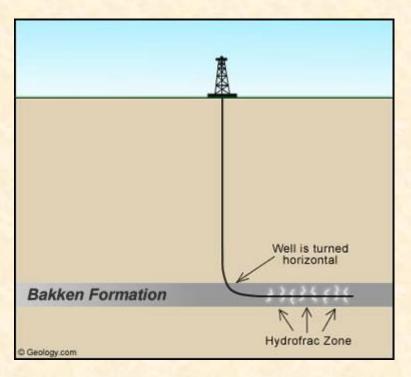
State of North Dakota 3,854 10,015 11,942



ND Monthly Oil Production

- December 2007 3,744,093 barrels/month
- December 2010 9,387,522 barrels/month
- December 2011 12,717,522 barrels/month
- December 2012 20,195,213 barrels/month
- December 2013 26,068,927 barrels/month
- November 2014 32,566,321 barrels/month
- Potential to add 18,000 barrels a month for next five years

FRACKING



http://geology.com/articles/bakken-formation.shtml

The Changes – 2009 to 2015

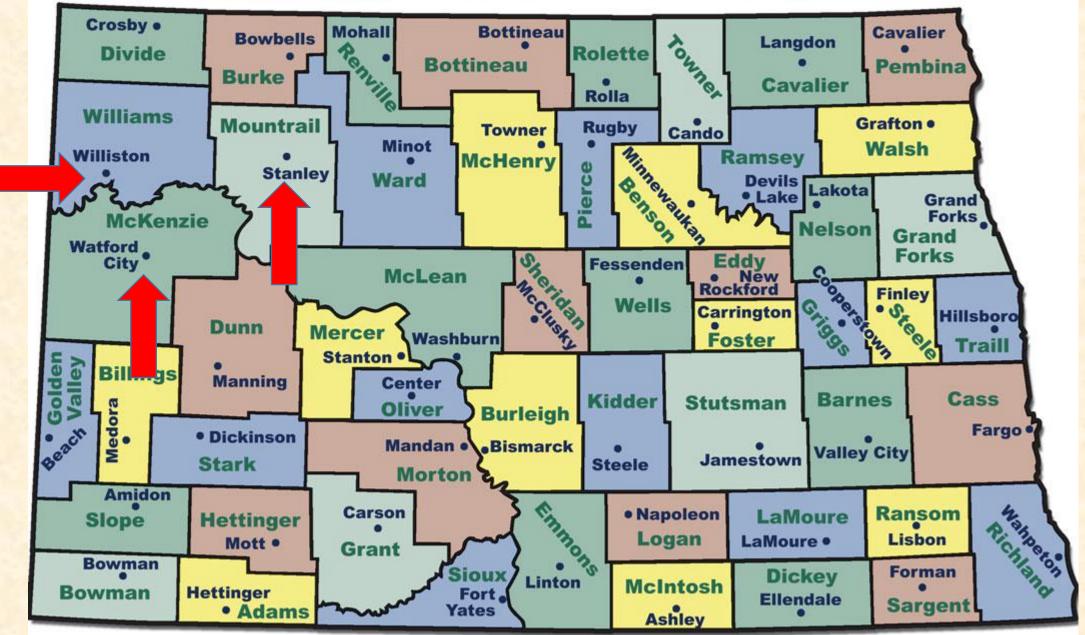
- <u>http://money.cnn.com/2015/02/04/news/economy/oil-boom-infrastructure/</u>
- Largest per-capita spending gain in nation (2009-2012) \$32,780 to \$44,029
 - Rank 4th in nation
- ND unemployment rate 2.7% in June of 2014 lowest in the nation. Rugaber, StarTribune, August 7, 2014
 - March, 2015 3.1 2nd in nation
- Issues: Cost of food and housing; Infrastructure; Environment; Public Services such as schools, emergency services and health care systems; Crime
- The oil boom has brought economic prosperity, people, jobs, new businesses, improved infrastructure, services, etc.

Population

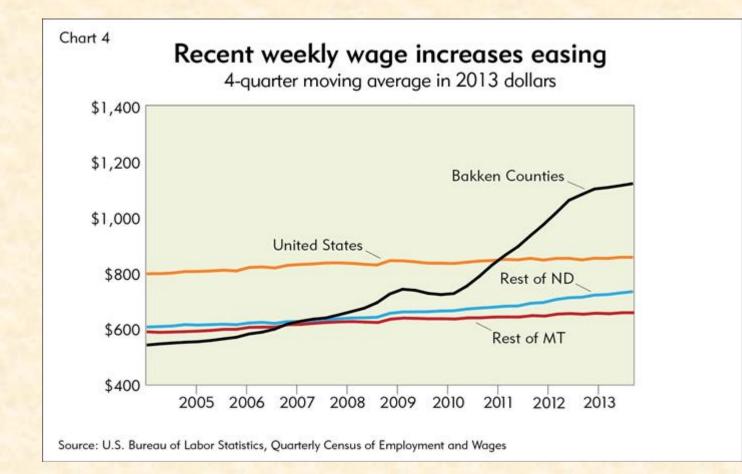
- North Dakota highest rate of in-migration of any state in the recent year, particularly for males under 35 years of age (North Dakota Census Office, ND Department of Commerce).
- Nation's fastest growing metropolitan areas Fargo and Bismarck, ND ranked 4th and 5th, respectively (ND Department of Commerce, 2014).
- Three of the top five micro areas (of at least 10,000 people, but less than 50,000) in the nation are in North Dakota with Williston being 1st, Dickinson 2nd and Minot as 5th.
- Two North Dakota counties were ranked among the nation's fastest growing counties with a population of 10,000 or more. Williams County was ranked the fastest growing county in the nation, with Stark County ranked as 4th.
- State population reached an all-time high, the population is 723,393 residents (see <u>http://www.census.gov/</u> for a complete report).

Managing in the Bakken - Businesses - Community/Family

NORTH DAKOTA COUNTIES AND COUNTY SEATS



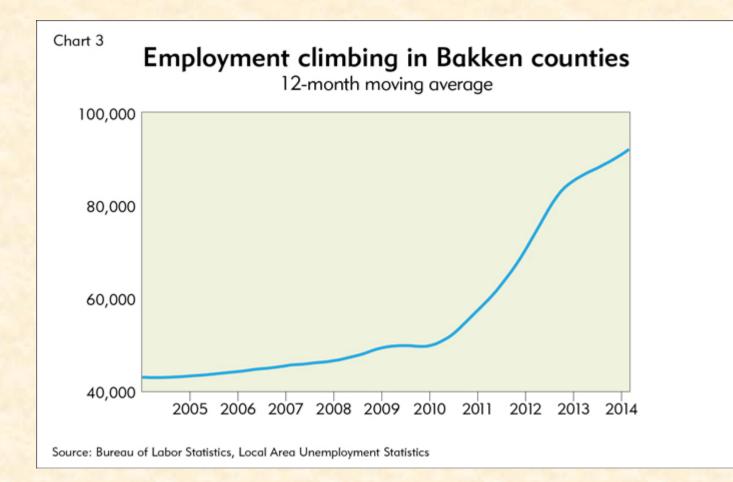
Issues for Business Owners



Comments from Business Owners

- When Taco John's put a sign up in the window advertising \$16/hour, it changed the entire wage structure. You have to pay more.
- It provides jobs.
- Allowed my kids/my classmates to come home.
- Higher costs for everyone.
- Had businesses who were struggling. Now everyone is busy.
- Lots of stores are chains. Independent owners are selling out.
- "I spent 8 months looking for an employee. She worked 2 days, then called to say her husband was transferred and she was leaving."

Employment



Comments from Business Owners

- Employees will leave for 50 cents more per hour. But we will take them back.
- Before the boom, "we actually did things to encourage traffic in the store."
- "Never have a 40-hour week anymore."
- "Not sure how many 60-hour weeks I have left in me."
- Chains are bringing in workers from out of state for 2-week shifts.
- Have to be flexible. Some businesses are even offering housing.
- Use Craig's list to help find employees.





Target Industries – Man Camp





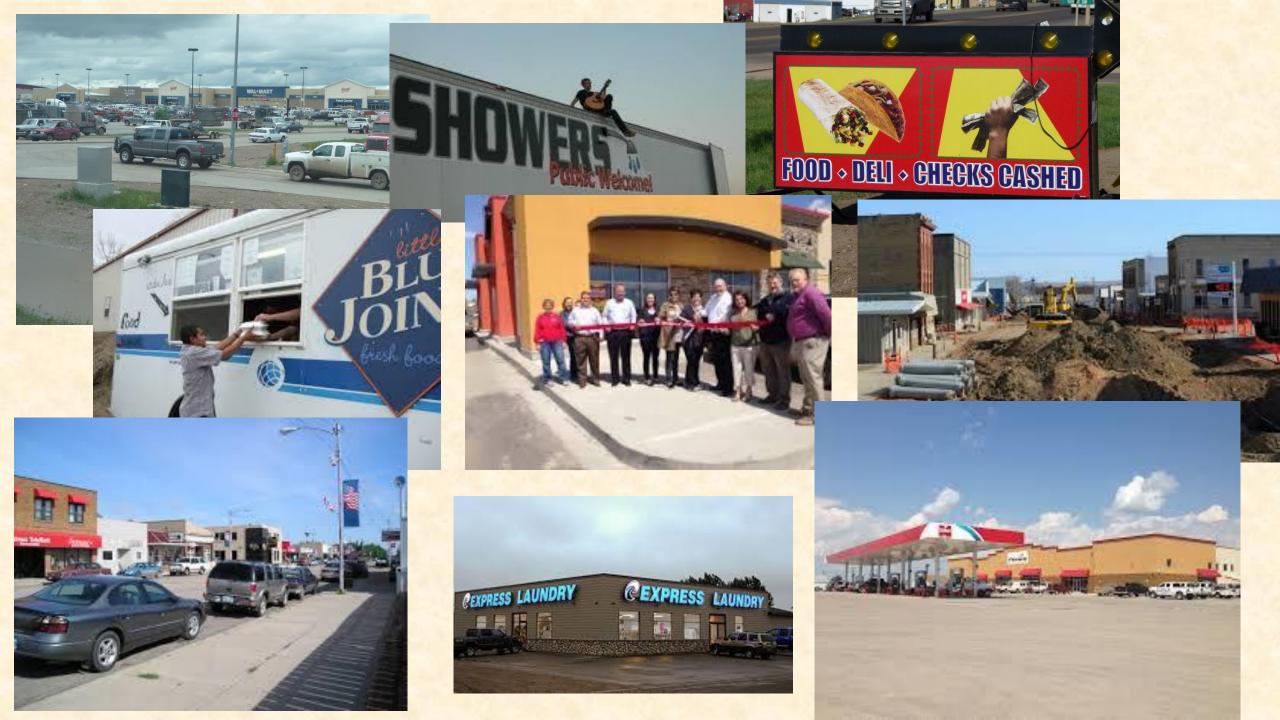
Anything Goes Trailer Court PRICELESS !!

\$800/month for space plus utilities

Legacy

Comments from Business Owners

- New businesses, such as a landscaping business, are arriving. Before the boom, those businesses didn't exist out here.
- The Bakken premium School bids were 1.5 times what they would have been before or are in other parts of the state.
- The Bakken premium is added to your bill when having goods delivered.
- We go through a lot more merchandise.
- Additional income allowed us to bring in additional help. We can get out of the store on occasion.



Issues Go Beyond the Bakken Borders

• Bismarck, ND

- Shipping center, air service, housing, workers
- Grand Forks, ND
 - Manufacturing, skilled trades
- Belle Fourche, SD
 - Manufacturing
 - People/housing
 - Coming to retire or live
 - Workers live and commute to Bakken
 - Skilled trades not available as they are working in Bakken instead

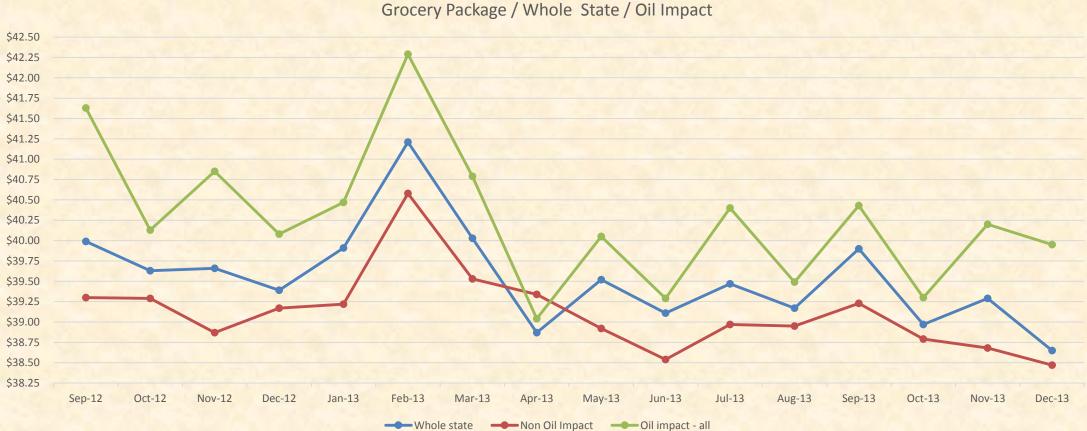
Impact on Communities

- "It's brought good and bad."
- We have a big, new grocery store (previous owner sold out).
- Got baseball diamond, water park, and golf course expansion. These were all part of our master plan done before the boom.
- Schools, city, police, etc. were forced into the housing business.
- Nothing is a quick as it used to be.
- When I go into a store, I used to know everyone. Now I probably don't know 8 out of 10 people.
- We lock our doors now.

The 2 Bakkens

- Transient workers no family or temp location males under age 35
- Companies who are locating there oil execs are bringing families
- Execs asked to buy local hardware store
- "If they would stay and bring families it would be so much better how do you create a sense of community with a fairly transient workforce"

Cost of Food and Other Goods



Trash and Dirt

auditor and acting treasurer. "They Svihovec. "With a 1.75 percent in- ing pod, which would have elimi- like we'll be able to do almost everyapproved applying for a loan with the terest rate over 10 years, the revenue nated close to a third of the inmate thing that we had planned over the Bank of North Dakota for a maximum commitment will be from the GPT beds \$60 million line of credit for the law money. The board directed Auditor "The board agreed that we needed of North Dakota loan program to fienforcement center. They approved Svihovec to begin the application 129 beds in the Law Enforcement nance the Law Enforcement Center options 2-11, as presented by ICON process with the Bank of North Da- Center," stated Svihovec. "Between Architects for reductions for the Law kota and apply for up to a \$60 mil- options 2 through 11, there is about Enforcement Center project, and the lion line of credit, which means that a \$3 million savings."

next two years by utilizing the Bank

See Jail

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TAYLOR AG SERVICES CHANGES HA lor, owner of Taylor Ag Services, Inc. has solo Chemical Company. Taylor will remain with Manager.

(Farme

Taylor Ag Serv changes owne

By Neal A. Shipman Farmer Editor

herbicides And su took on a v

When Kent Taylor and his father, "We add Jim, started Taylor Aerial Spraying 1999, we c in 1985, little did Kent know that his business," small aerial spraying business would Ag Service grow to be one of the largest indepen- For the dent agricultural retailers in western and his st North Dakota. Inc. has b

"We started out with just one water and ranche truck and two Pawnee spray planes," North Dal states Taylor. "McKenzie County was with aeria in the middle of a drought and had a herbicides grasshopper epidemic. All we did for But as the first year was spray insecticide on there are grasshoppers." in the fert

By his second year in business, pendent de (Farmer Photo by Neal A. Shipman) Taylor and his father realized that vices Inc., their spraying operation could be- companie come something bigger. And they happened decided that in addition to spraying insecticide on grasshoppers, they

could use their spray planes to apply

Watford man a for beating wo

Victim suffered bruising a body and broken orbital

TIME TO PICK UP THE PATCH Watford City will be holding its annual "Pick Up The Patch" the week of April 27 to May 2 with the big clean-up day set for Saturday, May 2.

Watford City ready to 'Pick Up The Patch'

Last year. local volunteers picked up over 8,000 tons of trash in just one day

By Amy Robinson Farmer Staff Writer

Sunday, April 26, through Saturday, more this year. May 2. Karen Holte with McKenzie "The more people involved, the For individuals and groups want- tion, in most all ditches, in mass County Social Services, along with better and the faster we can clean up," ing to pick up trash during the week quantities to a few scattered pieces.

According to Holte and members lenge to the different businesses as Department of Transportation," said of the committee, roughly 100 people well," said Holte. "We like to chal- Justin Smith, Watford City Public have shown up in the past for the Sat- lenge them to do like a mile or two- Works superintendent and 'Pick Up Watford City will host its fourth an- urday event. As that number grows mile radius to clean up around their The Patch' committee member. nual 'Pick Up The Patch' event from every year - they are hoping for even own business. It reflects better on As one drives through the Bakken,

their business too." trash can be spotted in every directhe 'Pick Up The Patch' committee said Holte. "We can spread out and of the event, prior to Saturday's big And the trash products range in any-

When I buy baby formula at the new grocery store, I have to wash the tops of the cans first to get all the dirt off them.







Schools

- Watford City -27% one year growth
- Homeless students Living in a camper or sharing a home with another family or living in a nontraditional setting constitutes homelessness - 40% of Watford City students are classified
- Difficulty in finding staff
 - "We are a housing agency today."



Infrastructure

- Fire From 30 to 300 calls per year in Watford City
- Ambulance
- Roads 14% of 2014 ND fatalities occurred on 14 mile stretch
- Sewer and water

Rebuild Gravel Road \$500,000/mile

Road Repair

Dust Control \$8,000 / mile

Paving \$1,000,000+ / mile

Graveling - \$14,400 /mile

Environmental Impact



Quality of Life Comments from Business Owners

- Safety—We won't let kids walk home
- Have less time with family
- Strangers all over but also brings new friends
- Traffic is terrible
- Crime human trafficking



On Bakken's fringe, business owners needing to get creative



 Deborah Lamb and Mike Ferris, pictured Friday, April 3, 2015, own the Teachers Lounge and Old School Center in Fortuna, N.D., which has seen

Needs

- "The biggest thing that most communities need it leadership training, but how do you get people to go is the hard part."
- ..."some training for business that show them the best way to expand what they're offering or finding that way to compete with the big box store."
- "...growing those leaders. It may be about finding that next person interested in owning a business, that transition from generation to generation."

Summary

