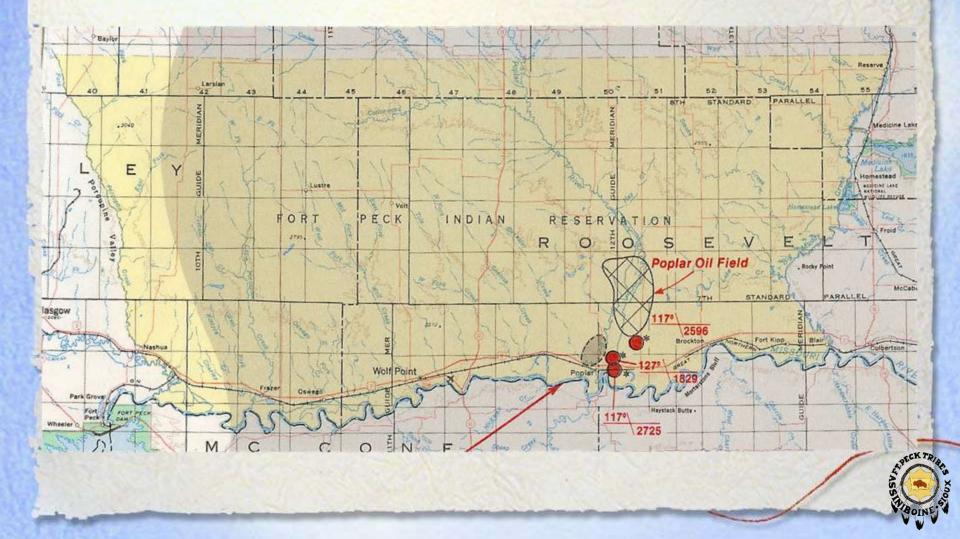
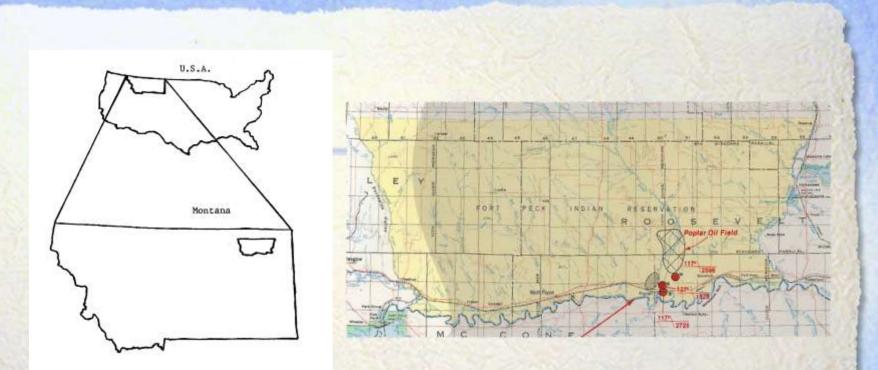
Assiniboine & Sioux Tribes of the Fort Peck Indian Reservation



Office of Economic Development October 25, 2010

Nakota & Dakota Nations

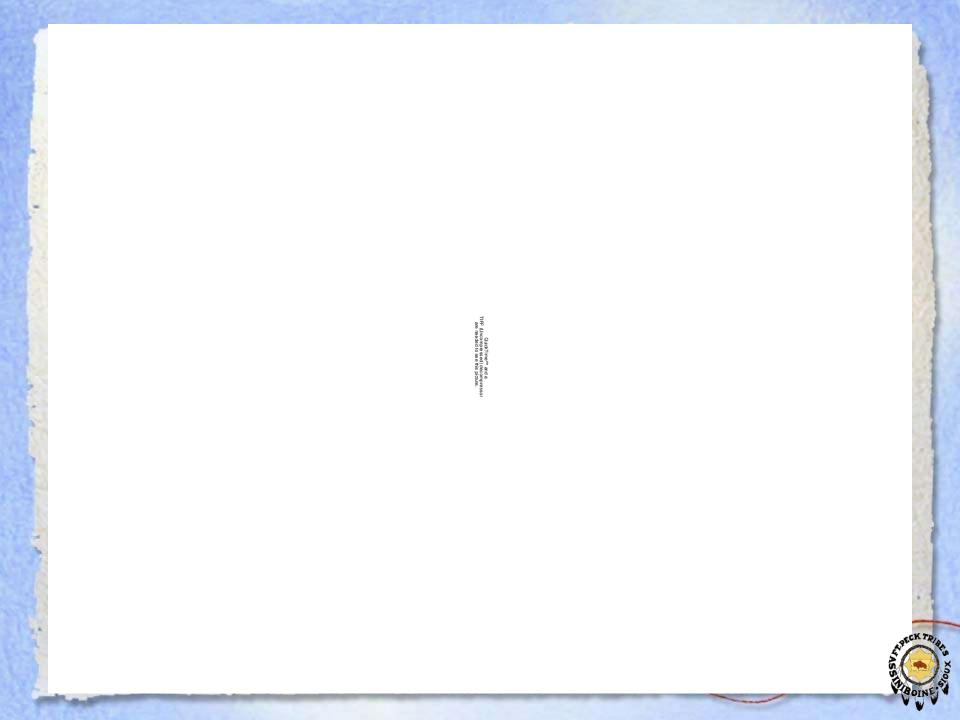


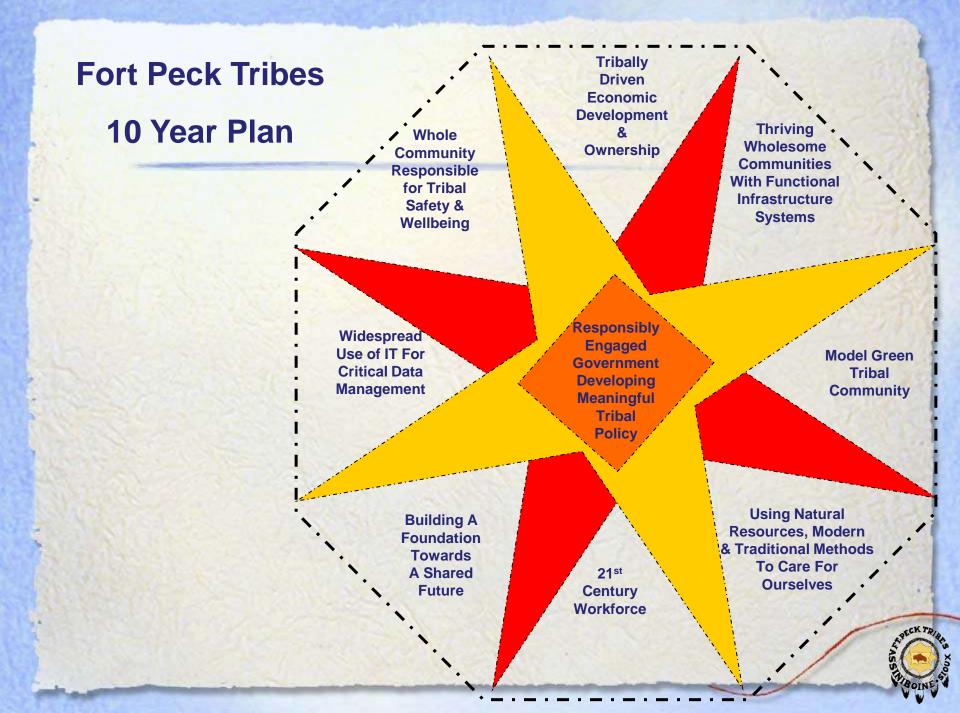


- 2.1 Million Acres (50% Fee)
- ≈16,000 Membership
- 6 Communities along Highway 2
- 100 mi. x 35 mi.
- Southern Boundary Missouri River









Fort Peck Energy Office "The People's Electricity"





Fort Peck Energy Office "The People's Electricity"

VISION

Become the Regional Leader in Renewable Energy Generation and Delivery MISSION

Build Energy Independence For The Tribe One Family At A Time



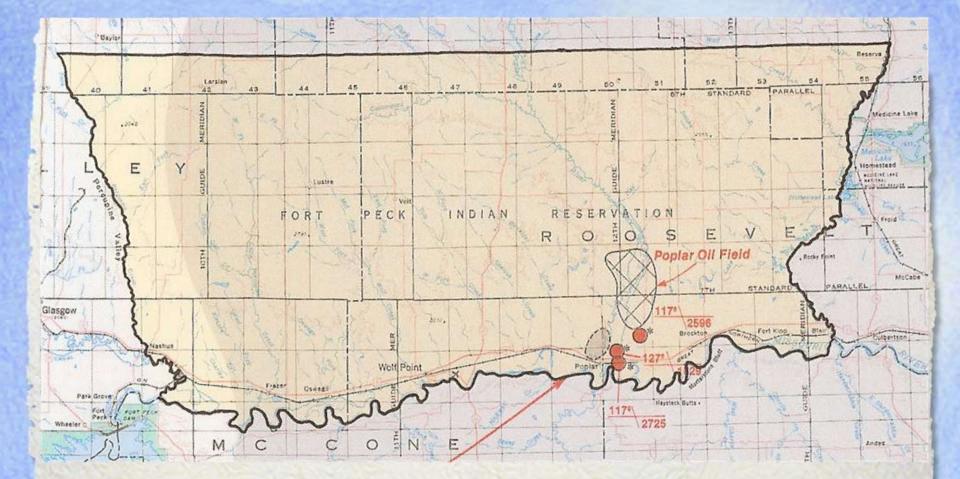


Fort Peck Energy Office "The People's Electricity"

EECBG

- Train 6 installers of GSHP at the IGSHPA
- Install 20 GSHP on tribal houses
- Monitor savings via electric bills
- Calculate Carbon Credits





Black Line is the Reservation Boundary MT Bureau of Mines and Geology Map - 1981 Potential Geothermal Sites.

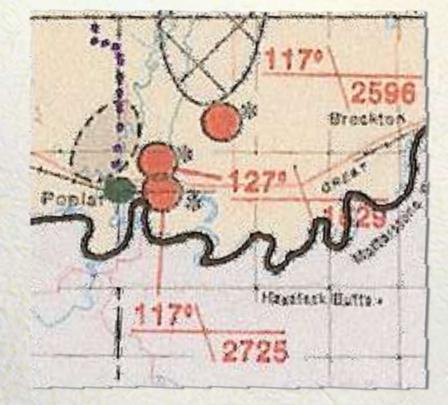


Geothermal

- 1979 Feasibility Study Scientific Foundation
- MIT-Study 2006
- Montana Bureau of Mines Information
- Co-Produced Liquids Technology Using abandoned oil wells, current wells.



MIT STUDY



OIL FIELDS 132° C at 2.2km

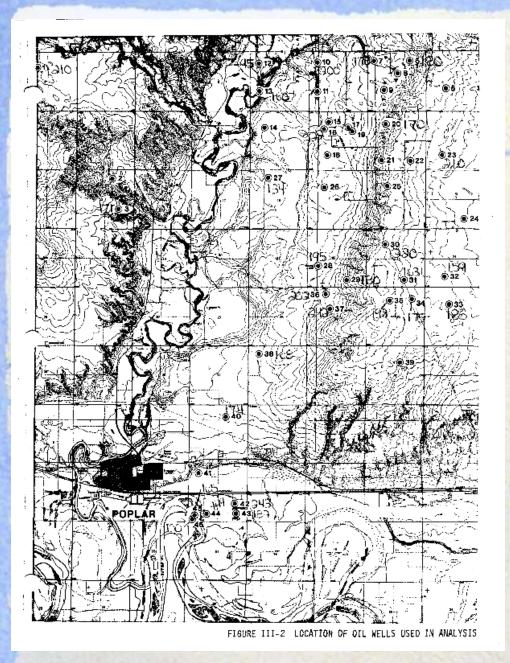
GRANITE BASEMENT 250° C at 6.5km (or less)

Little deep exploration

Few temperature data available

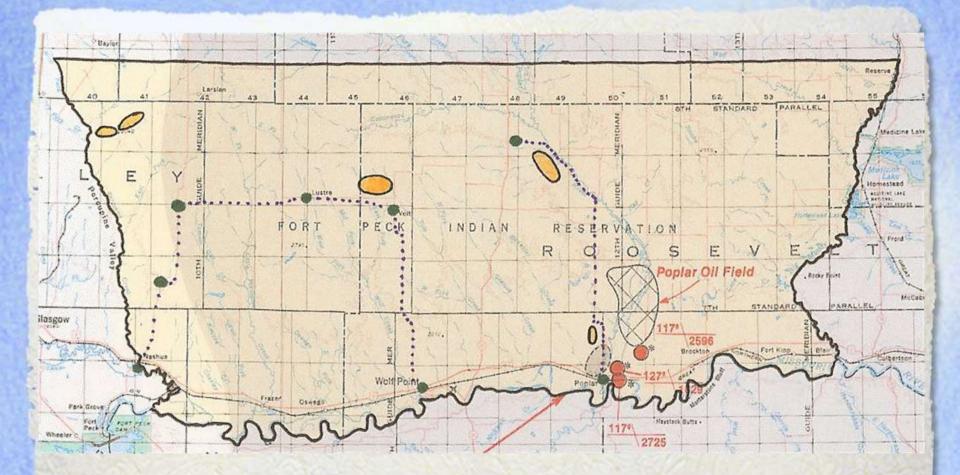
Generally normally pressured





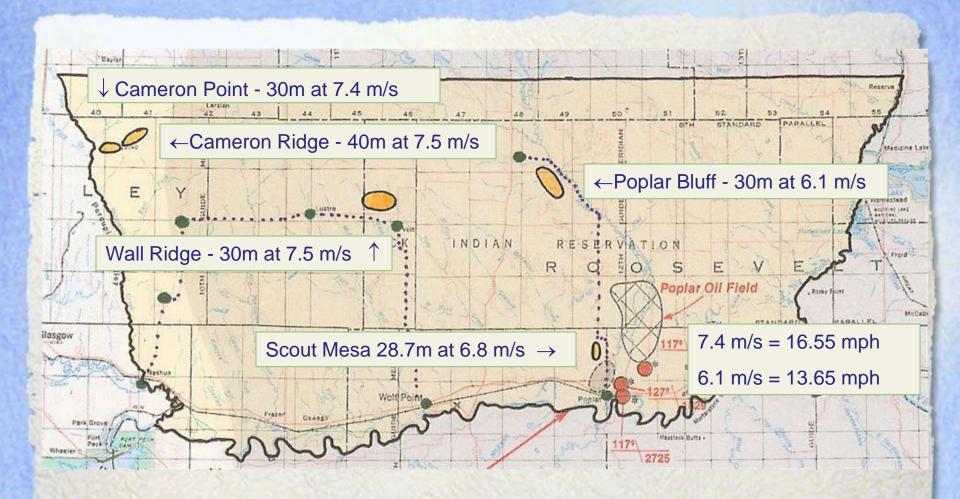
Geothermal Feasibility Study

- Data from existing wells
- Fault line
- Technology improvements since 1979
- District heating for Poplar, MT



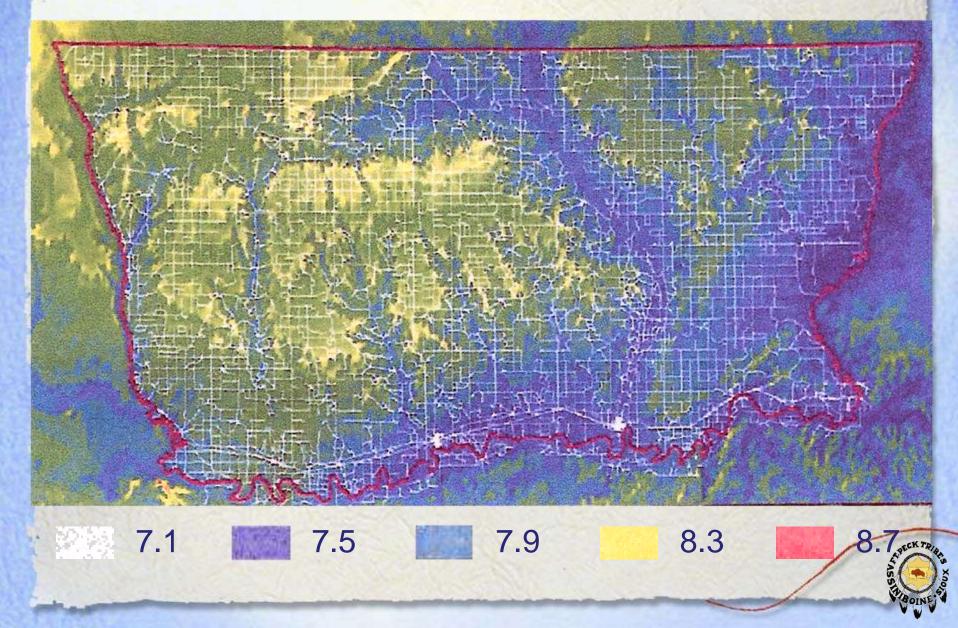
- Wind Sites Bechtel Study (1995)
- 30m Anemometer Towers/ 1 Radio Tower





- Wind Speeds are Class 5 and Class 6
- Low Turbulence Intensity (less stress on turbines)
- Vertical Sheer is high (more power captured w/ taller tower

Fort Peck Average Annual Wind Speed (M/s) at 60M



References

• MIT Study -

http://geothermal.inel.gov/publications/future of geothermal energy.pdf



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