Mandan, Hidatsa and Arikara Nation Tribal Energy Development

Chairman Mark N. Fox MHA Nation

#### Bakken Background

- Fort Berthold Indian Reservation: 980,000 acres. 530,000 acres
- 552,000 acres within the producing region: 122K Tribal, 261K
  Allottee, 169K Fee
- $\sim 381$  wells (5/15) with Tribal Mineral Interest, and 18% average Tribal royalty rate.
- Number of Drilling Rigs Accessing Minerals on FBIR: 13 (including fee and trust land)
- Currently 300,000 + bpd/FBIR (5/15).
- Equates to 15% of N.D. production, and 2% of U.S. daily oil production.

#### Oil Rig at FBIR

North Segment Shell Creek



#### Tribal Energy Resources

- Current Tribal Natural Resources
  - Oil
  - Rig Count 2014 26 rigs 220,000 bbl
    - 2015 13 rigs 8 trust -180,000 bbl
    - Trust land (allottee and Tribal)
      - Trust property 66% / Fee 33%
      - ND reached 2 Billion in royalties
  - Natural Gas
    - Flaring has declined from 50% to 20% over the last 24 months
  - Water
    - Industrial Use
    - Infrastructure

#### **Tribal Development**

- Missouri River Resources (oil, gas, pipelines)
  - Covering Upstream, Midstream, and Downstream
    - Tribally owned and operated
- Thunder Butte Refinery
  - Tribally owned and operated
- Section 17 Water Development
  - Tribally owned and operated

# Missouri River Resources — Exploration and Production (Current)

- Non-operated Interests
  - Working interest in 40 non-operated wells.
  - Working interest in above wells ranges from <1% to 25%.</li>
  - Approximately \$2 million in royalties to Tribe since 2013.
  - \$7.3 million in working interest to Missouri River Resources.
  - Amount withheld from Tribe due to BLM and BIA delays in processing leases on Little Missouri River: \$18 Million in working interest to MRR and nearly \$5 in royalties to Tribe.

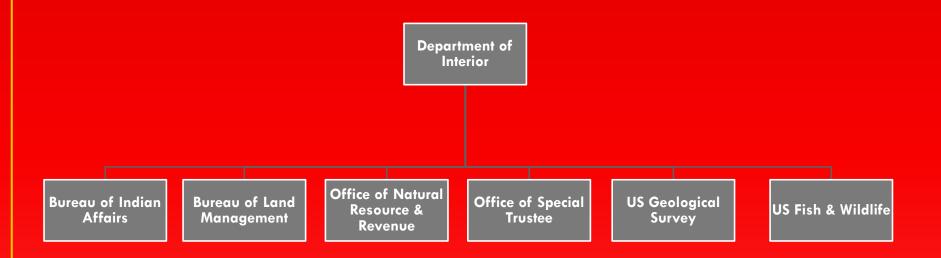
#### Missouri River Resources - Midstream

- Sacagawea Pipeline
  - 72 mile pipeline will transport crude oil from two origination points near Johnson's Corner in McKenzie County, ND to two destination points north of Lake Sacagawea (Stanley, ND and Palermo, ND).
  - 16 inch pipeline with initial capacity of 120,000 bbl per day.
  - Bored through bedrock 100 feet below lakebed of Lake Sacagawea.
    - Other proposed pipelines still fighting to lay (trenching)
      the pipeline on bottom of Lake.
  - Missouri River Resources will own 12% of crude pipeline.

#### Missouri River Resources - Midstream (cont.)

- Status of Pipeline Permitting/Construction
  - State
    - permits hearings conducted and permitting in final stages.
  - Federal
    - BIA lead agency on Environmental Assessment.
    - Issued FONSI
    - Awaiting Army Corps of Engineers 408 Review –
      Completion date unknown.

## Federal Partners Role with MHA Indian Minerals



#### **Future MHA Development**

- Gas
  - Utilizing flaring for power generation and development
  - Power development from other sources
- Pipeline Investments
  - Taxation on Tribal Lands
  - Ownership and Development

**Environmental Protection** 

# Missouri River Resources — Exploration and Production (Future)

- 2015-2016:
  - Operated: 8 wells on two 320 acre spacing units.
- 2016-2018:
  - Operated: 24 to 32 wells on four 1280 acre spacing units.
- Continued investment in working interest (nonoperated) opportunities with Reservation.

# Missouri River Resources — Midstream (future)

- Gas Gathering:
  - Gas Pipeline to run parallel to crude pipeline.
  - MRR will build gas gathering and gas processing system onto this pipeline.
  - MRR ownership will range from 50% to 100% on the different components of this system.
- Lateral to Thunder Butte Refinery:
  - MRR and Thunder Butte to co-own crude 24 mile crude pipeline from Sacagawea Pipeline to Thunder Butte Refinery.

### Water

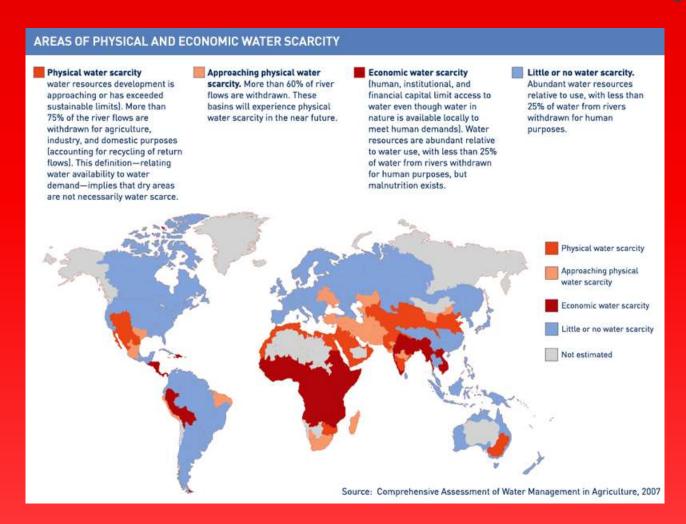
Lake Sakakawea on the Mandan, Hidatsa, and Arikara Nation



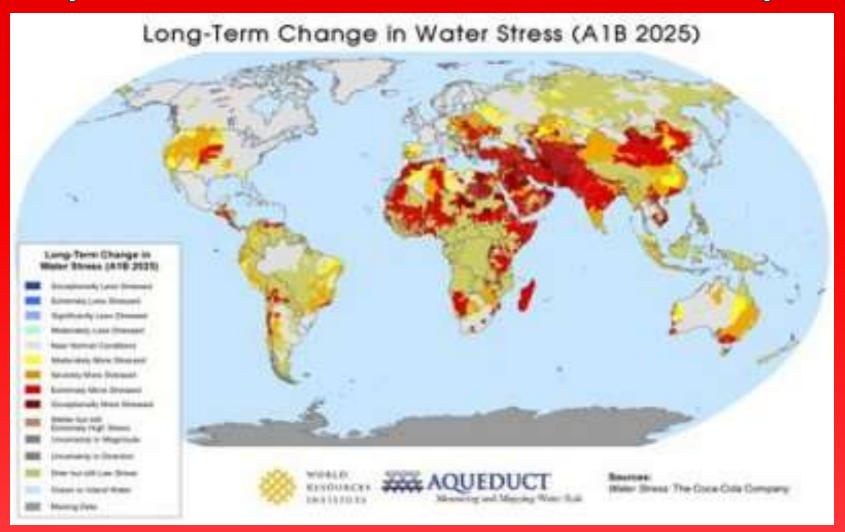
#### Water

- Among the important facts emphasized by the Food and Agriculture Organization (FAO) are these two:
- Water use has been growing at more than the rate twice of population increase in the last century.
- By 2025, 1.8 Billion people will be living in countries or regions with absolute water scarcity, and two-thirds of the world population could be under stress conditions.
- Conservation over surface and sub-surface water

### Physical and Economic Water Scarcity



### Physical and Economic Water Scarcity



#### Successful Energy Development

- Key Areas
  - Positioning
  - Owning
  - National Policy Leadership
  - Collaborative Efforts
  - Stewardship and Protection