DOE 2017 National Tribal Energy Summit
“Tribal Energy Sovereignty – Strengthening Strategic Partnerships”

Office of Indian Energy & Economic Development

IEED

Division of Energy & Mineral Development

DEMD

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Petroleum Geologist

Date: May 1-3, 2017

Washington, D.C.
DEMD

• Provide technical expertise to assist tribes with oil & gas exploration & development
  • Technical staff with considerable prior industry experience in Geology, Geophysics, and Petroleum Engineering

• Provide a link for Tribal and Native businesses to the petroleum industry – promote oil & gas opportunities
  • Participation in the North American Prospect Expo (NAPE) and other industry meetings

• The ultimate goal is to help create jobs and sustainable tribal economies
DEMD Oil & Gas Projects

• **Alabama Coushatta, Texas**
  – “Double A Wells” Field, Woodbine production, identify infill locations

• **Blackfeet, Montana**
  – Review results of Exshaw/Bakken exploration program – source rocks, reservoir characterization, production results, seismic interpretation, and regional mapping
  – Identified other potential reservoirs

• **Uintah & Ouray, Utah**
  – Participated in engineering sub-committee meetings with the tribe for a proposed secondary recovery unit in the Green River Formation and advised the tribe on the acreage participation formula

• **Crow, Montana**
  – Evaluated exploration and development opportunities and provided a risk assessment of expected reserves in the Tensleep Sandstone
DEMID Oil & Gas Projects

• Jicarilla Apache, New Mexico
  – Determined present worth profiles on wells for probate cases.
  – Calculated breakeven costs for the horizontal Gallup Sandstone play

• Osage, Oklahoma
  – Evaluation of historic oil & gas exploration and development in the Bartlesville Sandstone and Mississippian Limestones, and the impact of a court ordered drilling moratorium

• Northern Ute, Utah
  – Evaluation of horizontal play in the Green River Formation and breakeven economics

• Fort Peck, Montana
  – Evaluation of the Madison Group for CO₂ flood (enhanced oil recovery, EOR)
DEMD Ongoing Oil & Gas Projects

- **Navajo, New Mexico, Utah, Arizona**
  - Research on helium resources, Hermosa Formation
- **Pueblo Reservations (Rio Grande Rift), New Mexico**
  - Regional exploration to identify potential oil & gas plays
- **Update of the “Tribal Oil & Gas Atlas”**
  - Identification and characterization of unconventional plays
- **Reservations with Oil & Gas Production**
  - Determination of breakeven oil price to identify when drilling for varying formations can be expected to resume
- **EMDP, Numerous Reservations with oil & gas**
  - Projects to identify potential oil & gas plays, high-grade acreage with seismic, characterize the petroleum system: source, reservoir rocks, traps, seals
Supply and Demand Driven Prices.

Data obtained from: www.eia.gov
TWEXBMTH: (Trade Weighted U.S. Dollar Index) Currency exchange rate for the value of the U.S. Dollar, relative to the currencies of a broad group of major U.S. Trading partners for the month, shown in TWI/US $
Natural Gas Production by Source.
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https://www.bia.gov/WhoWeAre/AS-IA/IEED/index.htm