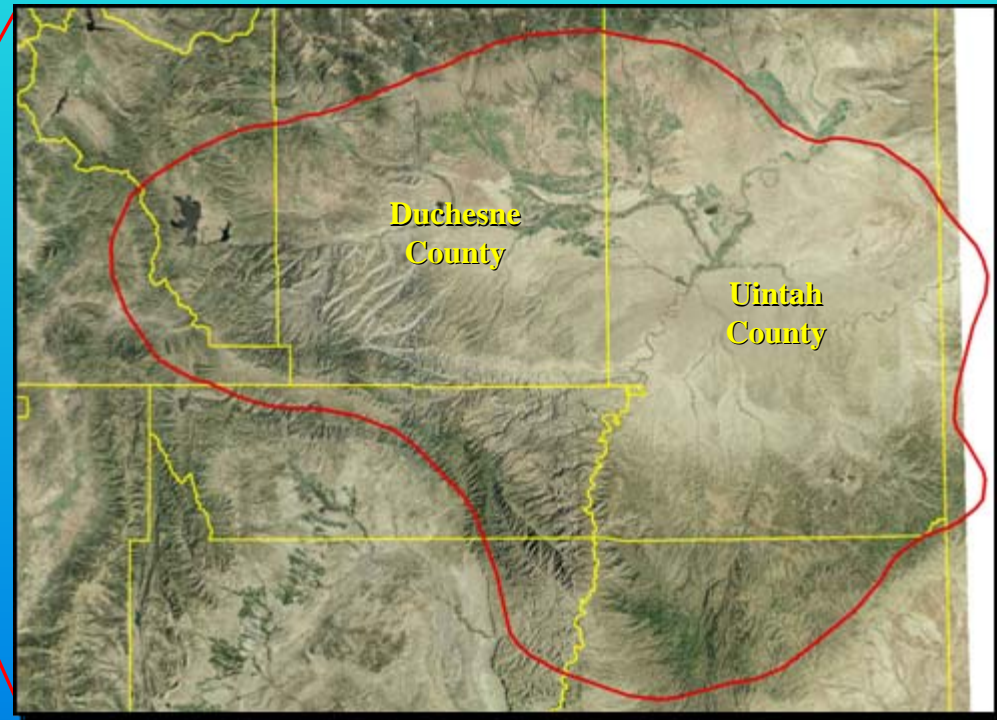
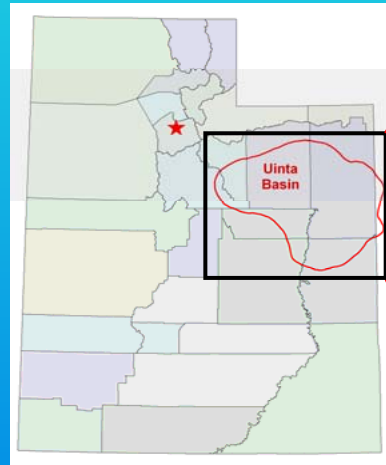


Water-related issues affecting conventional oil and gas recovery and potential oil shale development in the Uinta Basin, Utah



Year 1 Review

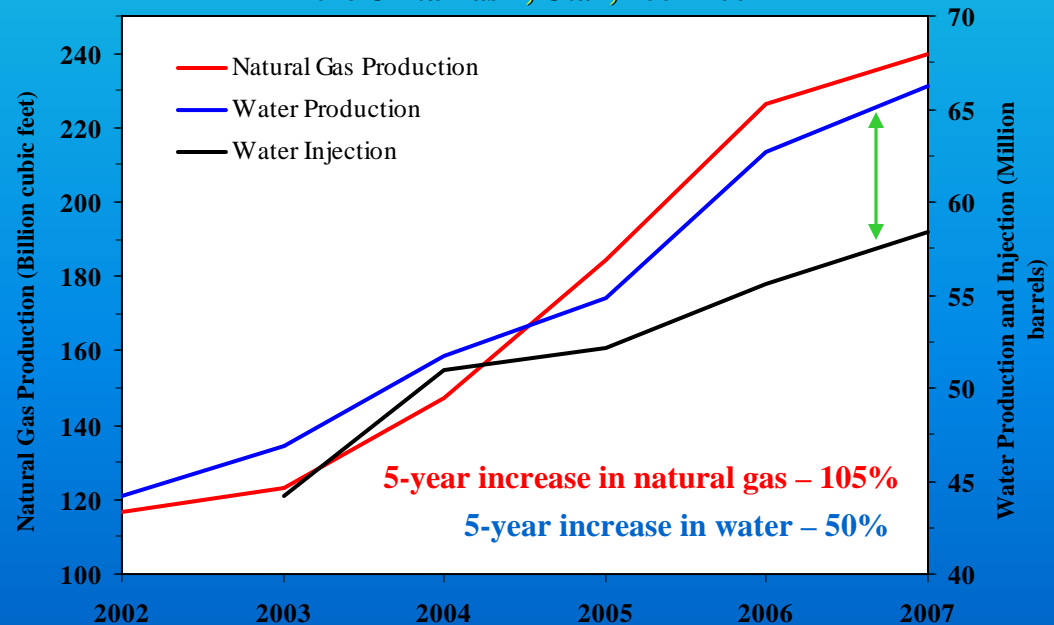
October 8, 2009

Project website: geology.utah.gov/emp/UBwater_study

Overall Goals

- 1) Address saline water disposal problems that hinder oil and natural gas development in the Uinta Basin, Utah
- 2) Assess how saline water disposal from conventional petroleum development might create technical and economic hurdles for a prospective oil shale industry
- 3) Collect baseline surface- and ground-water information for lands with oil shale development potential

Natural gas production, water production, and water injection in the Uinta Basin, Utah, 2002-2007



****Data from Utah Division of Oil, Gas and Mining and EPA Region 8****

Tasks to be Performed

Task 1: Project Management

Task 2: Moderately Saline Aquifer Study

- **Task Leader – Paul Anderson, Consulting Geologist**

Task 3: Geologic Examination of the Birds Nest Aquifer

- **Task Leader – Michael Vanden Berg, UGS**

Task 4: Baseline Water Quality and Quantity GIS Database

- **Task Leader – Janae Wallace, UGS**

Task 5: Integration of Analysis of Produced Water from Simulated In-situ Oil Shale Extraction Technologies (collaboration with the University of Utah)

- **Task Leaders – Michael Vanden Berg and Milind Deo, U of U**

Task 6: Technology Transfer

