

COAL BED NATURAL GAS

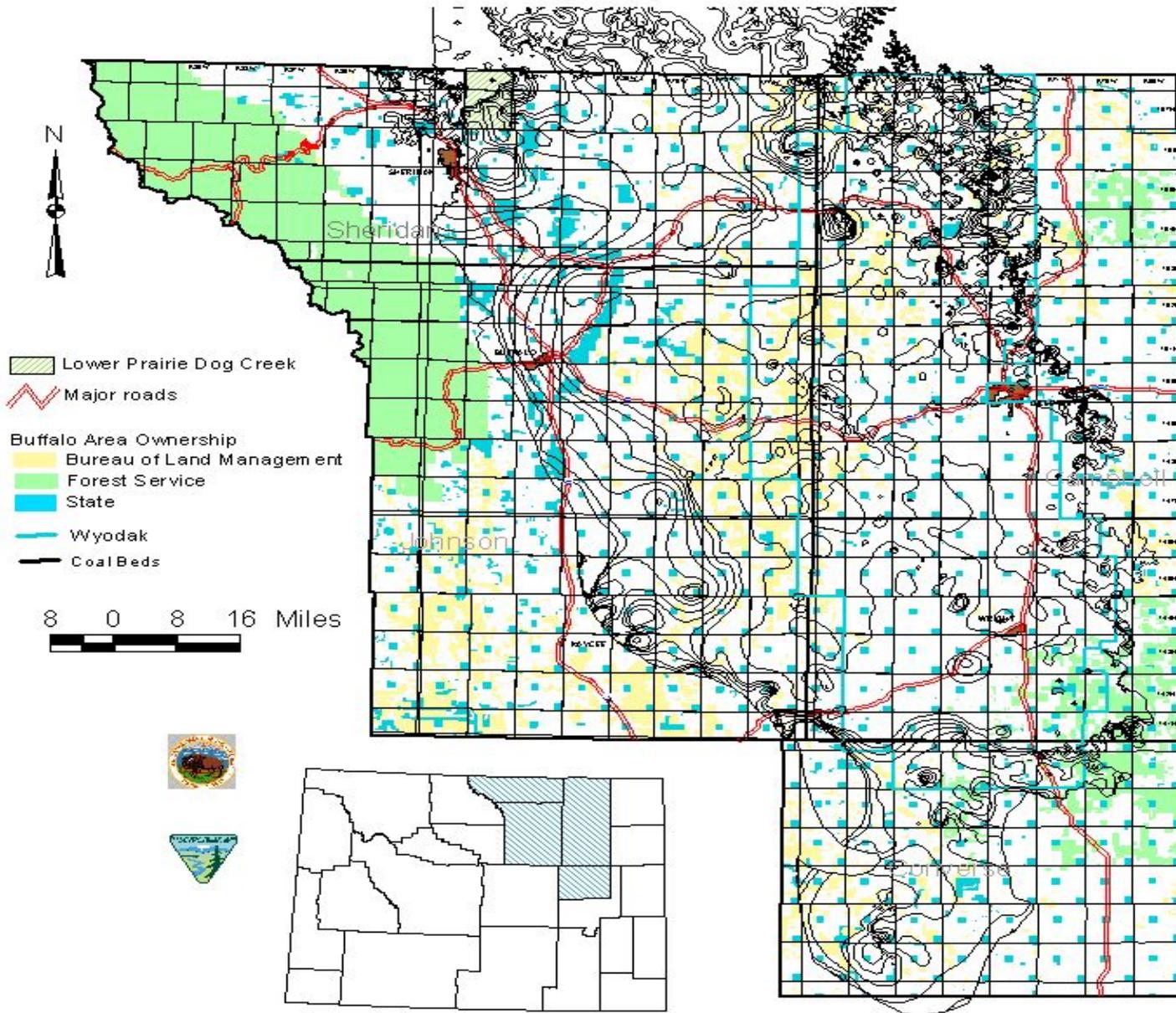
Powder River Basin



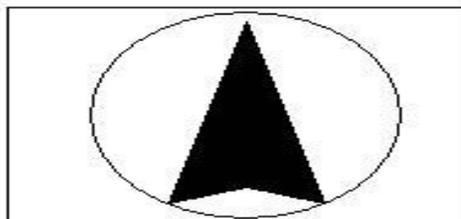
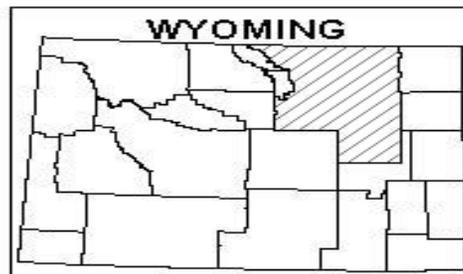
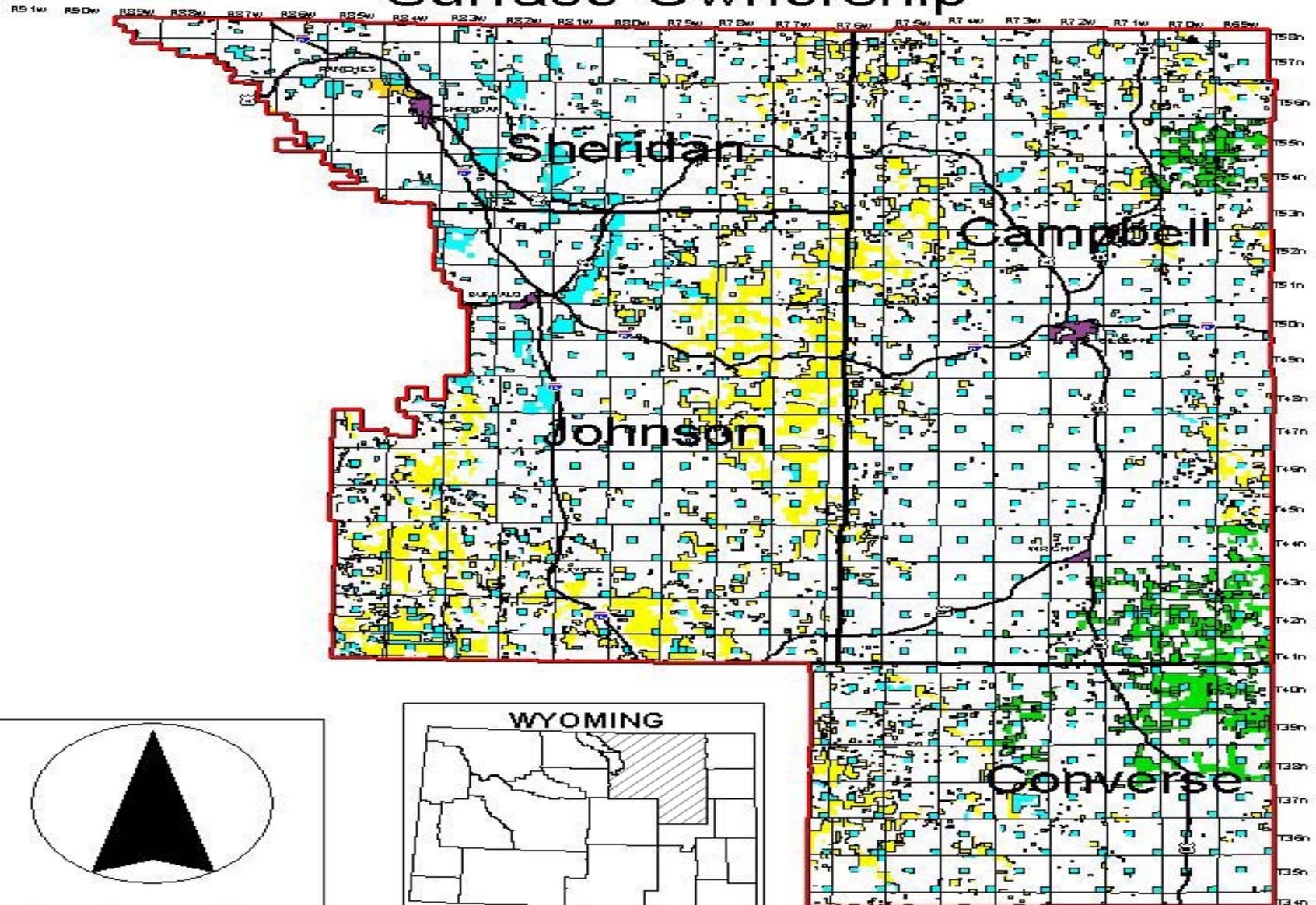
Buffalo Field Office

Powder River Basin O & G EIS

Extent of Coal

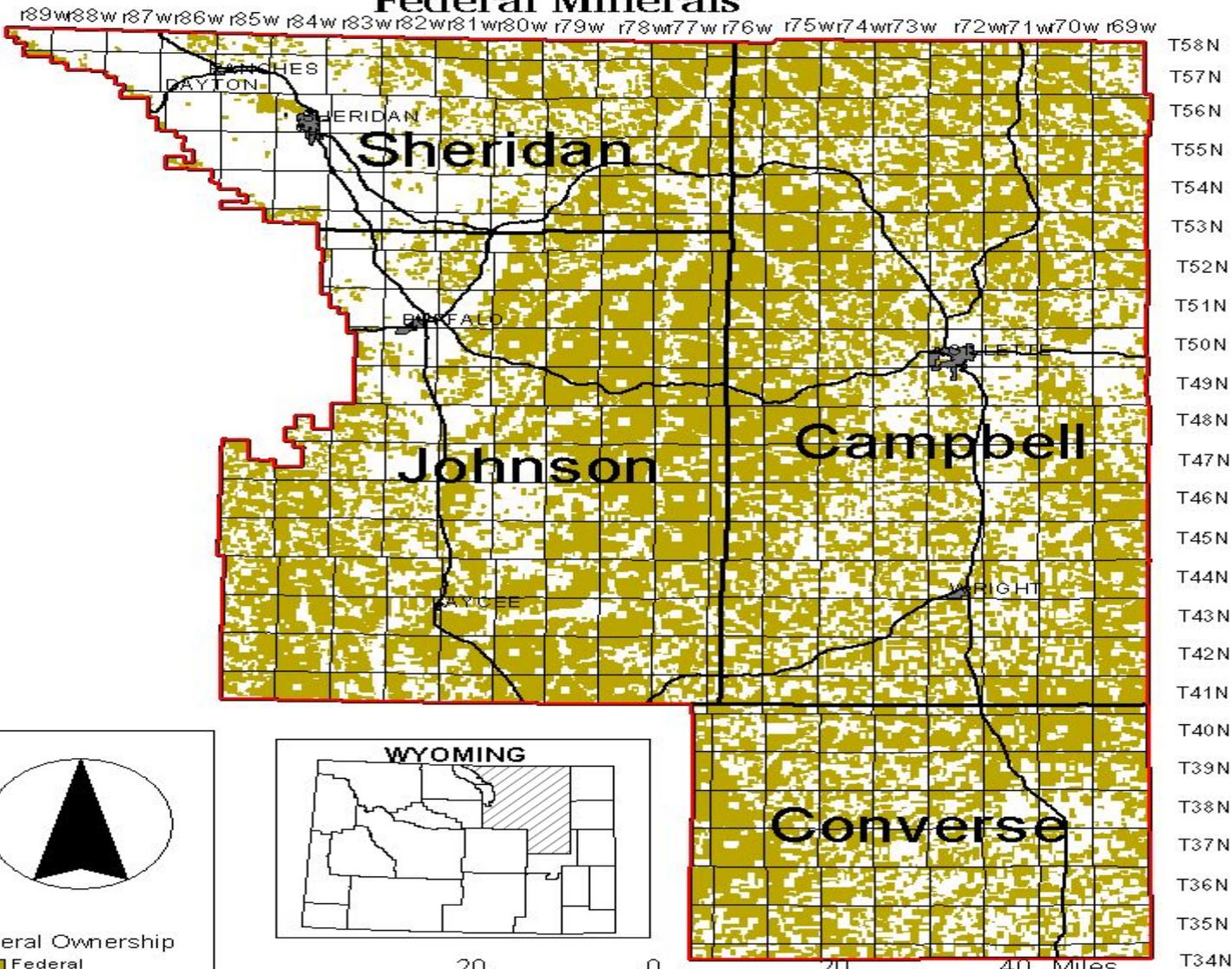
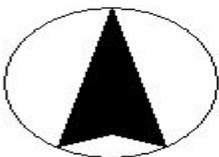


Powder River Basin Oil & Gas EIS Surface Ownership



Surface Ownership
Bureau of Land Management
Department of Defense

Powder River Basin Oil & Gas EIS Federal Minerals

Mineral Ownership

-  Federal
-  Private
-  EIS on file
-  Major Roads



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PRB EIS

- The Powder River Basin EIS was completed and the Record of Decision was signed April 30, 2003
- This document allows for 51,000 CBNG wells of which approximately 12,000 were completed at the time.
- Also allows 3,000 conventional wells

Site Specific Analysis completed under the EIS

- Completed for each POD
- Provides the analyses for the actual proposed development on the ground and all ancillary facilities required within a POD area

PLAN OF DEVELOPMENT MAP





- LEGEND**
- 1. Main Road
 - 2. Secondary Road
 - 3. Tertiary Road
 - 4. Boundary
 - 5. Water Body
 - 6. Building
 - 7. Field
 - 8. Forest
 - 9. Hill
 - 10. Depression
 - 11. Contour Line
 - 12. Spot Height
 - 13. Spot Height
 - 14. Spot Height
 - 15. Spot Height
 - 16. Spot Height
 - 17. Spot Height
 - 18. Spot Height
 - 19. Spot Height
 - 20. Spot Height

FIGURE 1
 A hand-drawn map showing a network of roads and boundaries. The map is divided into several colored regions: a large green area in the center, a purple area at the top, and a red area on the left. A complex network of black lines represents roads, with some thicker lines indicating main roads. The map is overlaid with a grid of dashed lines. Various points are marked with small black dots. The map is labeled with circled numbers 1, 2, and 3 on the right side, and circled letters A, B, and C at the top. A scale bar is visible at the top right.

Scale: 1:10000

CBNG POD REQUIREMENTS

- **Submit Applications for Permit to Drill or Deepen (Form 3160-3) for Each Well within a POD**
 - **Well Survey Plats**
 - **Master Drilling Plan**
 - **Master Surface Use Plan**
 - **Water Management Plan**

Surface Use Plan (13-Point)

- Existing Roads
- Proposed Roads
- Location of Existing Wells
- Location of Existing &/or Proposed Facilities
- Location & Type of Water Supply
- Construction Materials
- Methods for Handling Waste Disposal
- Ancillary Facilities
- Wellsite Layout
- Plans for Reclamation of the Surface
- Surface Ownership

- Other Information cont'd

SURFACE USE PLAN

(13-POINT)

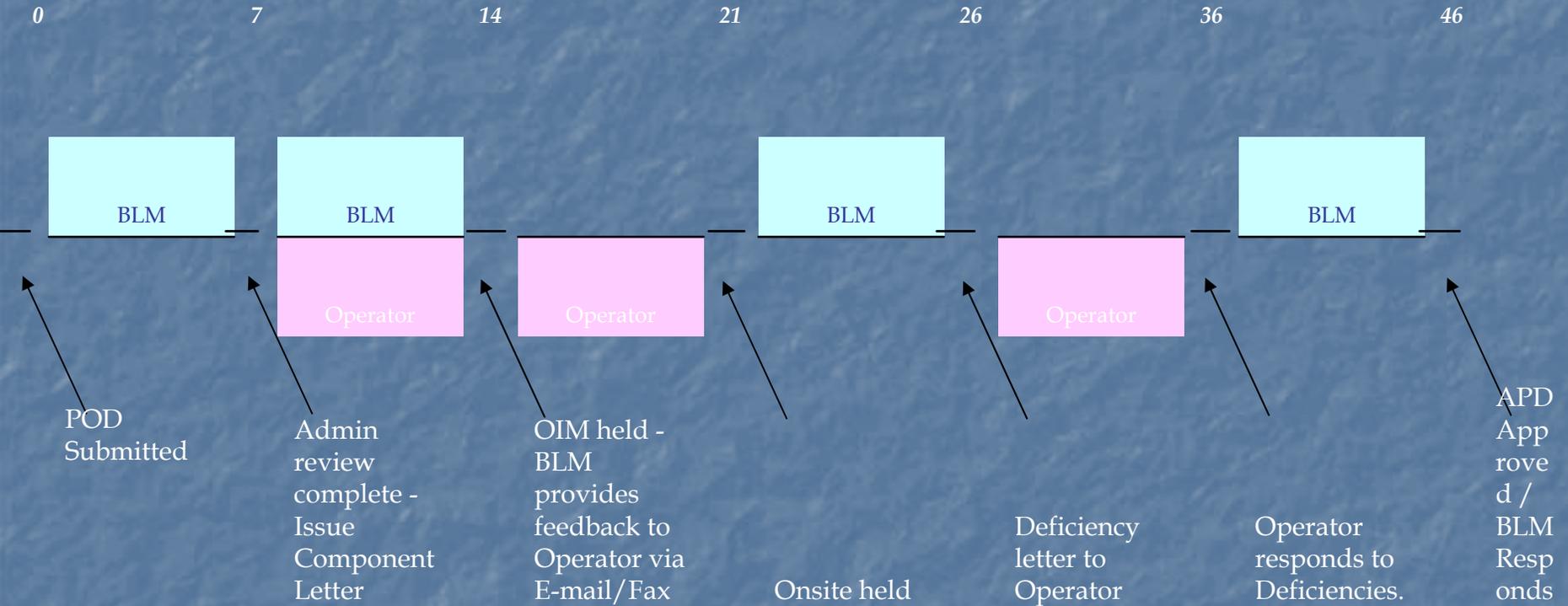
Continued

- **Other Information**
 - **Water Management Plan***
 - **Water Well Agreement/Certification**
 - **Historical, Cultural &/or Paleontological Resources**
 - **Threatened or Endangered Species &/or Special Habitat**
 - **Right-of-Way Needs**
 - **Lease Stipulations**
 - **Existing Land Uses and Improvements**
- **Lessee's or Operator's Representative & Certification**

WHAT ARE THE ISSUES for SITE SPECIFIC ANALYSES of CBM

- Water management -discharge and storage as impacts to soils, vegetation, fisheries, aquatic's, etc
- Plan of Development - alternatives
- Cumulative Analysis - downstream impacts for all development
- Cultural, T&E, Wildlife, etc.

APD Permitting Timeline



ASSUMPTIONS

- THE TIMELINE ESTABLISHES ACCOUNTABILITY FOR THE OPERATOR AND BLM
- EACH NRS IS ASSIGNED 3 PODs AT A TIME
- ALL PODs NOT WITHIN BLMs CONTROL (ANOTHER STATE OR FEDERAL AGENCY) STOPS THE TIMELINE

ASSUMPTIONS CONT'D

- ONSITES ARE PARTICIPATION BY RESOURCE STAFF, COMPANY, AND LANDOWNER
- TO INSURE STANDARDS ARE BEING MET, COMPANY OR CONTRACTOR PERSONNEL INVOLVED IN INVENTORY (CULTURAL, WILDLIFE) WILL BE REQUIRED TO ATTEND YEARLY MEETINGS

Status of CBNG/Convtl WELLS

Buffalo Field Office

■ APD (Pending Approval)	1425
■ AAPD (Approved but not drilled)	1224
■ DRG (spudded, but not completed yet)	168
■ GSI (gas shut in - CBNG/Convtl)	636
■ OSI (oil shut in)	353
■ PGW (producing gas well - CBNG/Convtl)	4003
■ POW (producing oil well)	1478
■ Cancelled (These were approved, but not drilled, expired)	420

■ 5/21/04

Status cont'd

- APDs Approved - PRB EIS (4/30/03 – 5/21/04) 1101
- APDs Approved in FY04 830
(This represents 50 PODs. The total number includes 4 conventional wells)

END

- Thank You