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# Regulating Air Quality Impacts from Oil and Gas Development

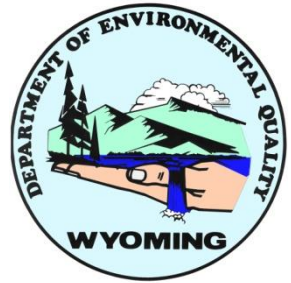
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May 28, 2014

WESTAR

Spring Business Meeting

Boise, Idaho



# Outline

- ◆ Permitting
- ◆ Compliance
- ◆ Air Quality Monitoring
- ◆ Emissions Inventory



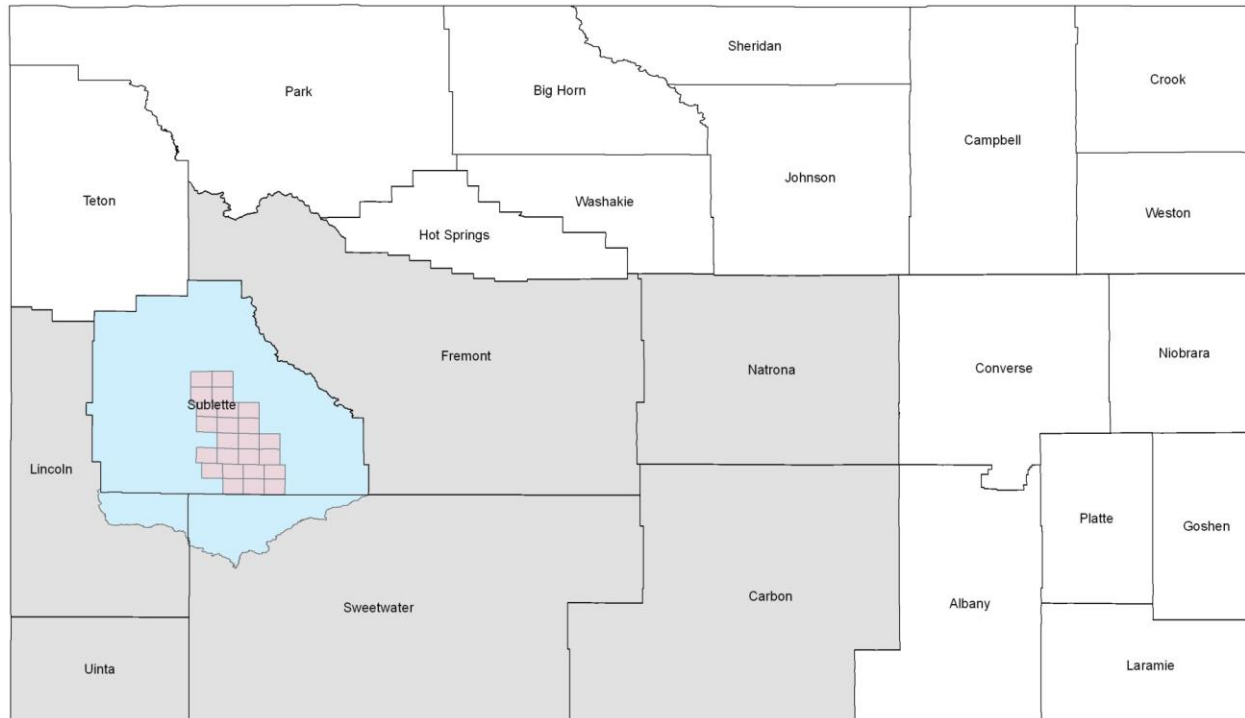
# Permitting

- ◆ Presumptive BACT (P-BACT)
  - Allows operators to produce the wells before obtaining a permit
  - Applies only to well sites and associated production equipment
  - P-BACT Guidance lays out timeframes for data gathering for emissions estimates, control thresholds and installation, and application submittal

# Permitting



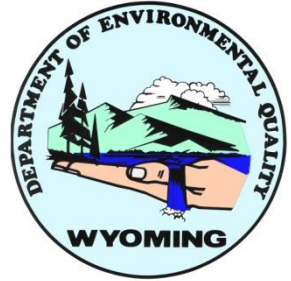
## Defined P-BACT Areas



### Legend

- JPAD/NPL
- UGRB
- CDA
- Statewide

# Permitting



## ◆ Comparison to NSPS OOOO

- Emissions calculated facility-wide vs. per tank
- Low bleed, no bleed pneumatic devices/controllers
- Control efficiencies: 98% vs. 95%
- Reduced emissions/green completions
- Consulted with Wyoming and other states



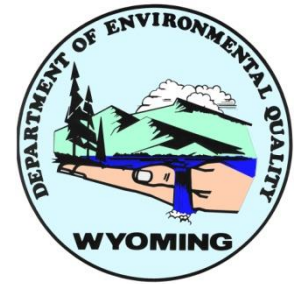
# Compliance

## ◆ Inspectors

- Dedicated inspectors in nonattainment area (2)

## ◆ Onsite Inspections

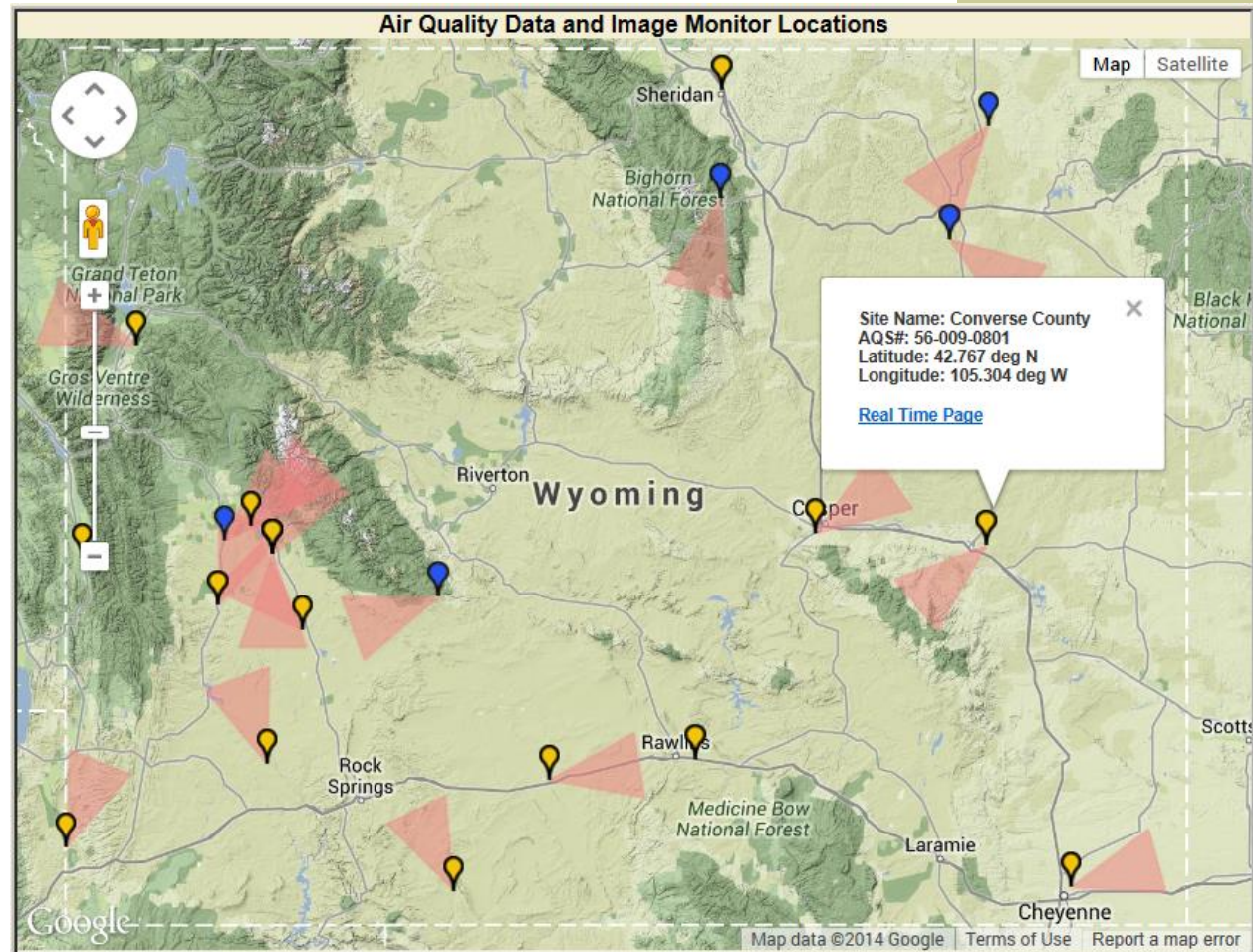
- Control equipment monitoring
- Other enhanced monitoring

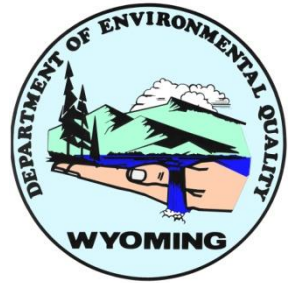


# Air Quality Monitoring

- 9 long term stations related to oil and gas development
- 3 mobile monitoring trailers
- Data available on web site

<http://www.wyvisnet.com/>





# Emissions Inventory

- ◆ Refining the oil and gas emissions inventories
- ◆ Specialized emissions inventories
- ◆ Developing reporting and QA tools