SLIDES: Introduction to Large-Scale Planning and the Intermountain BMP Project

Kathryn Mutz

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Environmentally Friendly Drilling Project Quarterly Meeting

Thursday, May 26, 2011


Host: Natural Resources Law Center
University of Colorado Law School
Boulder, CO
**BMP WORKSHOP AGENDA**

<table>
<thead>
<tr>
<th>TIME</th>
<th>TOPIC</th>
<th>PRESENTER</th>
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<tbody>
<tr>
<td>8:00-9:00</td>
<td>Registration and Coffee</td>
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<tr>
<td>9:00-9:15</td>
<td>Welcome and Introductions</td>
<td>David Getches, University of CO Law School</td>
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<td>Kathryn Mutz, NRLF</td>
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<td></td>
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<td>Rich Haut, HARC</td>
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<tr>
<td>9:15-9:30</td>
<td><strong>Incorporating BMPS into Large-Scale Developments</strong></td>
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<td></td>
<td>Large-scale Planning and the Intermountain Oil &amp; Gas BMP Project</td>
<td>Kathryn Mutz, NRLF</td>
</tr>
<tr>
<td>9:30-10:30</td>
<td>Planning of Multiple Well Pad Developments</td>
<td>Ginny Brannon, CO Department of Natural Resources</td>
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<td></td>
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<td>Mary Bloomstrom, Edge Environmental</td>
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<td></td>
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<td>Matt Sura, University of CO Law School</td>
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<tr>
<td>10:30-11:30</td>
<td>Participants’ Perspectives and Discussion</td>
<td>All workshop attendees are invited to share their experience</td>
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<tr>
<td></td>
<td></td>
<td>- Tisha Schuller, COGA</td>
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<td></td>
<td></td>
<td>- Brian Gentry, EFD Public Perception Study</td>
</tr>
<tr>
<td>11:30-1:00</td>
<td>Lunch on your own</td>
<td></td>
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<tr>
<td>1:00-1:30</td>
<td><strong>BMP Costs and Benefits</strong></td>
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<td></td>
<td>Cost/Benefit Analysis of BMPs</td>
<td>Tim Considine, School of Energy Resources, University of WY</td>
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<tr>
<td>1:30-2:15</td>
<td>Reclamation Practices</td>
<td>Peter Stahl, WY Reclamation and Restoration Center</td>
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<td>Joe Schneider, Western States Reclamation</td>
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<tr>
<td>2:15-3:00</td>
<td>Participants’ Perspectives and Discussion</td>
<td>All workshop attendees are invited to share their experience</td>
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<td></td>
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<td>- Rich Haut, HARC</td>
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<td></td>
<td></td>
<td>- Eric Biltonen, HARC, Ecosystems Services Project</td>
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<tr>
<td>3:00-3:15</td>
<td>Break</td>
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<tr>
<td>3:15-3:45</td>
<td>Managing Air Quality: Urban Challenges in the Rural West Gas Patch</td>
<td>Kate Fay, Energy and Climate, USEPA, Region 8</td>
</tr>
<tr>
<td>3:45-4:15</td>
<td>Participants’ Perspectives and Discussion</td>
<td>All workshop attendees are invited to share their experience</td>
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<td></td>
<td></td>
<td>- Jeremy Nichols, WildEarth Guardians</td>
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<tr>
<td>4:15-4:30</td>
<td>Wrap Up</td>
<td>Rich Haut, HARC</td>
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<td>Kathryn Mutz, NRLF</td>
</tr>
<tr>
<td>7:00-9:30</td>
<td><strong>Evening Program</strong></td>
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<td>Movie Screening and Discussion</td>
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<td></td>
<td>Haynesville: A Nation’s Hunt for an Energy Future</td>
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<td></td>
<td></td>
<td>Presented by Mark Bullard, Producer, Writer and Cinematographer</td>
</tr>
</tbody>
</table>
Intermountain Oil and Gas BMP Project

Welcome to the Intermountain Oil and Gas BMP Project Website

Best Management Practices

The Natural Resources Law Center and its partners welcome you to this free-access website of best management practices (BMPs) for oil and gas development in the Intermountain West. The focus of this website is a searchable database addressing surface resources affected by oil and gas development. The database includes both mandatory and voluntary practices currently in use and/or recommended for responsible resource management in the states of Colorado, Montana, New Mexico, Utah, and Wyoming.

The BMP database is not intended to represent a consensus on what the best practices are for specific applications nor to advise users on the current legal requirements for specific locations. Rather, the database describes each practice and documents the source of the practice (who requires or recommends it in what specific applications). The database provides links to the source of the BMP and, where possible, it provides supplemental information, including construction specifications, illustrations, pictures, maps, monitoring reports, and evaluations of the potential of the practice for mitigating impacts of development. Because practices change over time, database users should check with appropriate authorities to verify the latest requirements and recommendations for your area.

Training and Workshops

The BMP project hosted its first workshop on October 14, 2009 in Rifle CO: Best Practices for Community and Environmental Protection. Almost 60 people participated in a field trip hosted by Williams Production and over 170 attended the sessions at the Garfield County Fairground. For details on the Rifle workshop, go to the Rifle Workshop webpage for a copy of the agenda and powerpoint presentations made at the workshop.

BMP Categories

The database includes BMPs to address a variety of resources and issues...

- Air quality
- Aquatic/c riparian values
- Climate
- Cultural/Historic
- Grazing
- Health/Safety
- Noise
- Other
- Socioeconomic
- Soil/Surface
- Vegetation
- Visual aesthetics
- Water quality
- Water quantity
- Wildlife disruption
- Wildlife habitat

Browse all

BMP Search

What management practices are recommended or required for oil and gas development? To find out, use the drop down menus or type Keywords. For a more refined search, click "Advanced Search" or use the BMP SEARCH button.

Keywords: 

Category: Any

Location: Any

Advanced Search...

Submit  Reset

What's New

New Workshop, Oct 14, 2010
Opportunities and Obstacles to Reducing the Environmental Footprint of Natural Gas Development in the Uintah Basin

This public workshop will review results of a recent study of energy-environmental issues in the Uintah Basin of Northeastern Utah, and will highlight examples of environmental innovation taking place in the region.

Research Assistants needed
The Natural Resources Law Center is interested in hiring two part-time students for the 2010-2011 school year to assist with the Intermountain Oil and Gas BMP Project. See our Employment page for more details.

Search the Bibliography

Our searchable bibliography includes over 400 publications, including environmental impact statements, agency guidelines, and many technical reports, websites, and journal articles prepared by

Our current Resources page.
## Plans and Agreements Comparison Table

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</thead>
<tbody>
<tr>
<td><strong>Purpose of the Plan</strong></td>
<td>To provide a detailed plan of development of multiple proposed oil and gas wells.</td>
<td>To provide a detailed plan of development of an entire basin of oil and gas fields.</td>
<td>To provide a detailed plan of development of an entire basin of oil and gas fields.</td>
<td>To provide a detailed plan of development of an entire basin of oil and gas fields.</td>
<td>To provide a detailed plan of development of an entire basin of oil and gas fields.</td>
<td>To provide a detailed plan of development of an entire basin of oil and gas fields.</td>
<td>To provide a detailed plan of development of an entire basin of oil and gas fields.</td>
<td>Oil and Gas Conservation District.</td>
</tr>
<tr>
<td><strong>How is it enforced? Is it voluntary or required?</strong></td>
<td>Required by operator. Can be requested by the COGCC.</td>
<td>Required by the operator. Can be requested by the COGCC.</td>
<td>Required by the operator. Can be requested by the COGCC.</td>
<td>Required by the operator. Can be requested by the COGCC.</td>
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<td>Required by the operator. Can be requested by the COGCC.</td>
<td>Oil and Gas Conservation District.</td>
</tr>
<tr>
<td><strong>Who is involved in the plan?</strong></td>
<td>Operator: SRM, DCR, DSG, WMP must receive approval and be approved by MDP.</td>
<td>Operator: SRM, DCR, DSG, WMP must receive approval and be approved by MDP.</td>
<td>Operator: SRM, DCR, DSG, WMP must receive approval and be approved by MDP.</td>
<td>Operator: SRM, DCR, DSG, WMP must receive approval and be approved by MDP.</td>
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<td>Operator: SRM, DCR, DSG, WMP must receive approval and be approved by MDP.</td>
<td>Oil and Gas Conservation District.</td>
</tr>
<tr>
<td><strong>Can it be used for multiple operators?</strong></td>
<td>Applies to specific operator.</td>
<td>Applies to specific operator.</td>
<td>Applies to specific operator.</td>
<td>Applies to specific operator.</td>
<td>Applies to specific operator.</td>
<td>Applies to specific operator.</td>
<td>Applies to specific operator.</td>
<td>Oil and Gas Conservation District.</td>
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<tr>
<td><strong>What does the plan cover?</strong></td>
<td>Covers a specific geographic area.</td>
<td>Covers a specific geographic area.</td>
<td>Covers a specific geographic area.</td>
<td>Covers a specific geographic area.</td>
<td>Covers a specific geographic area.</td>
<td>Covers a specific geographic area.</td>
<td>Covers a specific geographic area.</td>
<td>Oil and Gas Conservation District.</td>
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<tr>
<td><strong>How is it enforced?</strong></td>
<td>Requires specific violations and penalties.</td>
<td>Requires specific violations and penalties.</td>
<td>Requires specific violations and penalties.</td>
<td>Requires specific violations and penalties.</td>
<td>Requires specific violations and penalties.</td>
<td>Requires specific violations and penalties.</td>
<td>Requires specific violations and penalties.</td>
<td>Oil and Gas Conservation District.</td>
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<tr>
<td><strong>Are BMPs included? Required/Recommended?</strong></td>
<td>Must include BMPs.</td>
<td>Must include BMPs.</td>
<td>Must include BMPs.</td>
<td>Must include BMPs.</td>
<td>Must include BMPs.</td>
<td>Must include BMPs.</td>
<td>Must include BMPs.</td>
<td>Oil and Gas Conservation District.</td>
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<tr>
<td><strong>Does it include a mechanism for evaluating success? For making adjustments?</strong></td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Oil and Gas Conservation District.</td>
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<td><strong>Price of the plan</strong></td>
<td>Requires specific violations and penalties.</td>
<td>Requires specific violations and penalties.</td>
<td>Requires specific violations and penalties.</td>
<td>Requires specific violations and penalties.</td>
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<td>Oil and Gas Conservation District.</td>
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<td><strong>Cost of the plan</strong></td>
<td>Requires specific violations and penalties.</td>
<td>Requires specific violations and penalties.</td>
<td>Requires specific violations and penalties.</td>
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<td>Requires specific violations and penalties.</td>
<td>Oil and Gas Conservation District.</td>
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</tbody>
</table>

### Notes
- *The Plan is a draft, as of May 2021.*
- This Plan is intended to provide a comprehensive overview of the various plans and agreements related to oil and gas development in Colorado. It includes information on the purpose, enforcement, involvement, use, coverage, enforcement, violations, BMPs, evaluation, and cost of each plan.
- The Plan is intended to be a tool for stakeholders to understand the various requirements and responsibilities associated with oil and gas development in Colorado. It is important to note that the Plan is subject to change and may be updated as new information becomes available.
BMP Project Components

1. Searchable Database & Bibliography
2. Website Background Materials
3. Research Services
4. Workshops
Searchable BMP Database

Intermountain Oil and Gas BMP Project

Advanced BMP Search

You can use this page to perform more precise searches on the database and specify which fields you want to display in the results list. If you prefer a more basic search, you can use the Basic Search page.

Keywords:
- Search the Title and Text fields only

Category: (multiple selections allowed)
- Any
- Air Quality and Emissions
- Aquatic and Riparian Values
- Community
- Cultural/Historic

Species: (multiple selections allowed)
- Any
- Animal Species
- Aquifer
- Amphibian
- Antelope

Location: (multiple selections allowed)
- Any
- Unspecified
- General / Federal
- Western Region
- Colorado

Oil/Gas Field Name: (multiple selections allowed)
- Any
- Atlantic Rim Natural Gas Field (GREATER GREEN R
- Castle Peak, Eightmile Flat, Monument Butte-Myte
- CK Field (POWDER RIVER BASIN)
- Desolation Flats Natural Gas Field (GREATER G

Timing: (multiple selections allowed)
- Any
- Planning / Environmental Review
- Construction / Siting / Design
- Drilling

Extra Fields to Display:
- Source Publication
- Include section and page
- Category
- Species
- Location
- Oil/gas Field
- Surface Ownership
- Mineral Ownership
- Usage Type (Recommended vs. Required)
- Timing
- Cost-Benefit Analysis
- BMP Efficacy
- Date Entered
- Last Updated
- Show bibliographic references

Sort Options:
- Sort By: Short Title
- Then By:

For tips on using Keywords in searches and on composing your data display, go to our Help page.

View the Bibliography
Search Criteria:

- **Keywords** = +power*
- **Power(s)**
- **Powerline**
- **Power line**
- **Category** = Wildlife Disruption
- **Species** = Sage grouse
- **Location** = CO and WY

Sort Criteria:

1. Required v. Recommended
2. Location
### Search Report

**BMP Record Detail**

**View BMP**

**BMP ID:** 7478

**Title:** Connect Casing to Vapor Recovery Unit

**Text:** "Crude oil and natural gas wells that produce through tubing may collect methane and other gases in the annular space between the casing and tubing. This gas, referred to as casing head gas, is often vented directly to the atmosphere. One way to reduce methane emissions is to connect the casing head vent to an existing vapor recovery unit (VRU)."

**Source Publication Name:** Connect Casing to Vapor Recovery Unit

**Citation Section:** Wells: Connect Casing to Vapor Recovery Unit

**Citation Page:**

**Supplemental Documents:**

**Usage Type:** Recommended

**Timing:** Production / Operation / Maintenance

**Oil / Gas Field:**

**Surface Ownership:**
- Federal
- State
- Private

**Mineral Ownership:**
- Federal
- State
- Private

**Primary Contact:** Environmental Protection Agency

**Address:** Ariel Rios Building, 1200 Pennsylvania Avenue, N.W.

**City:** Washington, DC 20460

**State:** United States

**Phone:** (202) 272-0167

**Alt. Phone:** (202) 272-0165

**Fax:**

**E-mail:**

**Alternate Contact:**

**Categories:** Air Quality and Emissions

**Location:** General / Federal

**Species:**

**Vegetation Types:**

**General Comments:** Pressure regulators would be necessary if low pressure casing head gas is combined with higher pressure sources (e.g., dehydrator flash tank separator) at a VRU suction. Only small diameter piping is required to join a casing head vent to the VRU suction...

**Cost-Benefit Analysis:** "This technology can pay back quickly. Revenue from gas recovery will pay back the piping cost and the incremental electrical power required by the VRU to inject the gas into a 100 psig system. At 7.5¢ per kWh, the partner reported gas recovery would increase electricity costs by $3,450 per year.*"

**BMP Efficacy:** "Casing head gas vents vary widely in quantity and methane content. One partner reported an annual average casing head gas methane recovery of 7,300 Mcf per year over a five-year period. This may be equivalent to about 10,000 Mcf per year of gas containing 73 percent methane."

**Date Entered:** 2010-07-29 00:42 EDT

**Last Updated:** 2010-07-29 4:12 EDT
1 Searchable Bibliography

• Source documents
  ✓ NEPA Documents
  ✓ Agency guidelines
  ✓ Industry recommendations
  ✓ Environmental group recommendations
  ✓ Community plans

• Supplemental documents
  ✓ Specifications
  ✓ Monitoring data
  ✓ Cost/Benefit Analysis
1 Searchable Bibliography

Bibliography Search | Intermountain Oil and Gas BMP Project

Natural Resources Law Center

University of Colorado Law School

Intermountain Oil and Gas BMP Project

**BIBLIOGRAPHY SEARCH**

You can use this page to search our bibliography. The bibliography includes Source documents (from which we have derived BMPs for the database) and Supplemental documents (documents linked to and providing additional information about individual BMPs and/or documents cited on our Resource pages).

**Keywords:**
(Searches Publication Name, Primary Author and Annotation)

**Extra Fields to Display**
- Citation Label
- Database Usage (Source or Supplemental)
- Primary Author
- Publication Year
- Document Type
- Show Annotation
- Show Section Names
- Show BMP Reference Counts

**Sort Options**
Sort By: Publication Name
Then By:  

For tips on using Keywords in searches and on composing your data display, go to our Help page. Browse the Bibliography.
### Bibliography Search Result

#### Search Criteria:
- **Keywords** = Vernal

#### Display Fields:
- ✔ Title
- ✔ Author
- ✔ Year
- ✔ BMP Count

#### Sort Criteria:
- Publication Name

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<table>
<thead>
<tr>
<th>Publication Name</th>
<th>Citation Label</th>
<th>Primary Author</th>
<th>Publication Year</th>
<th>BMP Count</th>
</tr>
</thead>
</table>

Chapter 2 of the Diamond Mountain Resource Area RMP contains a list of BMPs and decisions for fire management, fish and wildlife habitat management, and hazardous materials management in Uintah. It classifies each management type by sensitivity level and mitigation. The document suggests management practices for specific species and includes mandatory lease stipulations for specific areas. See the Vernal Resource Management Plan for more recent analysis of the area.

| Vernal Field Office: Record of Decision and Approved Resource Management Plan | UTD10 | Bureau of Land Management | 2018 | 0 |

"The Federal Land Policy and Management Act (FLPMA) requires that the BLM "develop, maintain, and, when appropriate, revise land-use plans" (43 United States Code [U.S.C.] 1713 [a]). The BLM has determined it is necessary to revise existing land-use plans [1, LP] and prepare a new RMP for the VFO based on a number of new issues that have arisen since preparation of the existing plans. In general, the purpose of this RMP is to provide a comprehensive framework for public land management within the jurisdiction of the VFO and its allocation of resources pursuant to the multiple-use and sustained-yield mandate of FLPMA." (page 1)


"Future raptor management on BLM lands in Utah will be guided by the use of these Best Management Practices (BMPs), which are BLM-specific recommendations for implementation of the U.S. Fish and Wildlife Service, Utah Field Office’s ‘Guidelines for Raptor Protection From Human and Land Use Disturbances’ (‘Guidelines’)." (page A-1)

| Vernal Field Office: Record of Decision and Approved Resource Management Plan — Appendix K. Surface Stipulations Applicable to Allison Surface Disturbing Activities | UTE27 | Bureau of Land Management | 2018 | 84 |

"This appendix lists surface stipulations referred to throughout the Approved RMP. Surface stipulations will be appended, where applicable, to land use authorizations, permits, and leases issued on BLM administered lands." (Page K-1)


"The following typical environmental best management practices (BMP) may be applied on individual applications for Permit to Drill and associated rights-of-way in the Vernal Field Office on a case-by-case basis." (Page P-1)


The Vernal Field Office (VFO) of the Utah Bureau of Land Management (BLM) is revising and integrating the Book Cliffs and Diamond Mountain Resource Management Plans (RMPs) into a single new RMP for the Vernal Planning Area. The revised BMP will be called the Vernal Field Office RMP and will provide planning guidance for public land and federal mineral estate managed by the VFO in Daggett, Duchesne, and Uinta Counties in northeastern Utah, as well as a small portion of Grand County. The DEIS analyzes the proposed revision and alternatives. Appendix K includes lease stipulations for all surface disturbing activities.


The Vernal Resource Management Plan DEIS analyzes management options for the Vernal Planning Area. Appendix A provides management practices for raptor conservation in the Vernal Resource Management Area. The appendix also provides specific strategies for reducing conflicts between oil and gas development and raptors and criteria for modifying the recommended management practices.


The Vernal Resource Management Plan DEIS analyzes management options for the Vernal Planning Area. This chapter describes the overall threats
View Publication | Intermountain Oil and Gas BMP

Natural Resources Law Center  
University of Colorado Law School

Intermountain Oil and Gas BMP Project

View Publication

Publication Name: Atlantic Rim Natural Gas Field Record of Decision
Publication Type: Project NEPA Document
Section Name: 
Author Name: Bureau of Land Management
Other Authors:
Contractor Name:
Publication Year: 2007
Publication No.: 
Local Source File: WY038-AtlanticRimROD.pdf

Annotation: This Record of Decision (ROD) documents the Wyoming State Director’s decision to approve the preferred alternative as described in the Atlantic Rim Natural Gas Field Development Project (ARNG) Final Environmental Impact Statement (FEIS). The ARNG FEIS analyzes various options for oil and gas recovery and resource mitigation. The decision emphasizes limiting surface disturbance and performing interim reclamation, cooperative air quality monitoring with the state of Wyoming, and continued resource monitoring and consultation with federal and state agencies. The ROD provides the plan for future management of the federal surface and mineral estate in the Atlantic Rim Project Area (ARPA).

Required vs. Recommended: Required -- [Appendix B] "... to the Atlantic Rim Record of Decision (ROD) lists the requirements that will be imposed, as appropriate, by the Bureau of Land Management (BLM), Rawlins Field Office (RFO) on all oil and gas development actions approved on federal lands and minerals within the Atlantic Rim Project Area (ARPA). These requirements include mitigation identified in specific resource mitigation subsections of chapter 4 of the Final Environmental Impact Statement (FEIS) for the ARPA." Pg. 1-1 Required -- Appendix C: "Many of these environmental protection measures [BMPs] would be included as Conditions of Approval (COAs) in this ROD. However, by additionally including them as Operator-committed practices, the various Operators have made a commitment to implement them throughout the life-of-project (LOP), and the impact analyses provided in the Final EIS take into consideration the implementation of these measures based on this commitment." Pg. C-1

Ownership: Federal -- "The ROD provides the plan for future management of the federal surface and mineral estate in the Atlantic Rim Project Area (ARPA)." Pg. 1 "The BLM has approval authority over actions on federal minerals and lands. When evaluating development applications for affected federal minerals and lands, the BLM will consider impacts and surface disturbance that occur on private and/or state lands relative to an Operator’s disturbance cap allocation." Pg. 5-6
2 Website Background Material

• Resource Pages
• Law & Policy: Federal, State and Local
• Links
• Case Studies
• Cost Analysis
• Effectiveness Data and Critiques
2 Website Background Materials

Resource Pages
- Development Process
- Air Quality
- Water Quality
- Vegetation
- Wildlife
- Reclamation
- GIS
- Communities
- Solid Waste
- Benefits
- Economics
- Oil and Gas Fields
2 Background: Law & Policy

LAW & POLICY

Overview:

Oil and gas development is regulated by all levels of government – Federal, State, and local. Some statutes deal with oil and gas operations directly, while others are more generally concerned with protecting human health, air, land, wildlife, water or other resources and incidentally apply to oil and gas. After laws are passed by Congress or a state legislature, it is the task of an administrative agency such as the Bureau of Land Management, the Environmental Protection Agency, or a state agency or commission, like the Colorado Oil and Gas Conservation Commission, to issue regulations, further defining, and consistent with, the original law. Beyond their regulations (also called rules), the agencies might also issue policy or guidance documents to further explain the law. At the local government level, the law itself, usually called an ordinance, is the most detailed provision of law.

Which laws are applicable to a particular development depends in part on who owns the land and who owns the minerals. For federal lands or minerals, the process can involve all three levels of government. For private or state lands and minerals, the process is mostly state and local, although all development needs to comply with the national environmental laws like the Clean Air Act and Clean Water Act. For additional information on the Clean Air Act, Clean Water Act, and other laws applicable to oil and gas development, click on one of the links at the top of this page (e.g., Federal Laws: Oil and Gas). Or go to the index page of the Federal Laws Section on the Red Lodge Clearinghouse website and choose a topic.

Federal Lands:
The Federal government owns a large percentage of the land within each of the Intermountain states: Colorado - 36.3%, Montana - 29.9%, New Mexico - 41.8%, Utah - 57.5%, Wyoming - 42.3%. From: Federal Real Property Profile, 2004

Federal and State Law Summaries and Links:

Our federal, state, and local laws pages provide brief summaries of the laws, regulations, and agency policies and guidelines of particular importance to regulation of oil and gas development. They also provide links to the codes, regulations, and to the agencies in charge of regulating the industry.

For law and policy of a specific jurisdiction, click on one of the following links or on one of the links at the top of this page.

Federal: Oil and Gas | Air | Water
Colorado: State | Local
Montana: State | Local
New Mexico: State | Local
Utah: State | Local
Wyoming: State | Local

How Do Best Management Practices Fit into “Law”?

“Best management practices (BMPs) are state-of-the-art mitigation measures applied on a site-specific basis to reduce, prevent, or avoid adverse environmental or social impacts.”
- Bureau of Land Management BMP website

Many people associated with oil and gas development think of BMPs as strictly voluntary practices. In the Intermountain Oil and Gas BMP Project Database, we have taken a more expansive view of BMPs, in part because what is voluntary today may be required tomorrow or may change from one jurisdiction to another. Consequently, we have included both voluntary and required practices in our database. We designate BMPs as either “Required” or “Recommended” in the database and provide our rationale for this designation in our bibliography.

For more explanation of our designation of BMPs as “Required” or “Recommended”, see Use of “Required” versus “Recommended” for BMPs.
**Utah County and Municipal Law**

Several county and municipal governments in Utah have enacted regulations and ordinances, to supplement the applicable federal and state laws and regulations for managing oil and gas development in their jurisdictions.

Not every county or municipality in Utah has chosen to implement such regulations, and among those that have, some address oil and gas issues in more detail than others. The following are examples of local oil and gas regulations currently in place in Utah. Links to the full text of each county’s or municipality’s regulations are provided below, but provisions of particular interest are identified as well.

For more information on individual counties visit the Utah Association of Counties. Also, for more information on geology of individual counties visit the Utah geology page.

**Utah Counties**

- Carbon  | Davis  | Duchesne  | Emery  | Grand  | Millard  | Sanpete  | Summit  | Uintah  | Wasatch

**Carbon County**

[Carbon County Oil and Gas Provisions](#): Carbon County is located between Duchesne and Emery Counties in North Eastern Utah. Carbon County has a significant amount of oil and gas development. The Uinta Basin encompasses the eastern portion of the county and there is a large natural gas field in most of the western portion of the county. Visit the [Carbon County website](#). Contact the [Carbon County commissioners](#).

Provisions of particular interest from the [Carbon County Development Code](#) include:

Table 5.1 – Lists Oil and Gas Wells as a conditional use in all zones except WS (Water Shed), SL (Scotfield Lakeshore Zone), and HMC (Historic Mining Camp Zone). There are no other provisions specific to oil and gas development, however, the provisions indicate that Carbon County considers the Utah Division of Oil, Gas, and Mining to be the county’s expert on all issues relating to oil and gas and has adopted all of the applicable state regulations.

**Davis County**

[Davis County Oil and Gas Provisions](#): Davis County is located in north central Utah on the West side of the Great Salt Lake. There is no large-scale oil and gas development in Davis County.

Visit the [Davis County website](#). Contact the [Board of Commissioners](#).

Provisions of particular interest from the [Davis County Code](#) include:

Chapter 14.12 deals with excavation of natural resources in general, but does not specifically deal with oil and gas. There do not appear to be any provisions in the code that directly deal with oil and gas regulation.

- **§ 14.12.010 Purpose and Intent** – describes the purpose of the ordinance and that while mineral extraction is a value to the County and society, it should be done in a way that minimizes environmental impacts.

Project Sponsors/Advisors

Project Funding
- Miller, Agro & Robbins
- RPSEA
- LCAOF
- RMMLF
- U of C Outreach
- Ruckelshaus Institute
- Upper Green River Valley Coalition
- Petroleum Field Services, LLC

In-kind Contributions
- Advice
- DB Information
- Case Studies
- BMP critiques
- Workshop/Field Trips

See our ABOUT US page for details
What We Need from You!

- Try the DB -- What works? What would improve it?
- Give Us Advice
- Provide DB information (Company guidelines or manual?)
- Provide case studies
- BMP critiques
- Speak at our workshops
- Lead field trips

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