

Proposed Greater Crossbow Oil and Gas Exploration and Development Project Environmental Impact Statement

BLM Wyoming Buffalo Field Office



WELCOME

Welcome to the Bureau of Land Management's (BLM) public scoping meeting for the

Proposed Greater Crossbow Oil and Gas Exploration and Development Project Environmental Impact Statement (EIS).

While you are here, please take time to learn about the proposed project, ask questions, and discuss your concerns with the BLM project manager and resource specialists involved with this project.

Written comments may be submitted tonight or at any point until **December 31, 2015.**

Thank You for Joining Us!

BLM Wyoming Buffalo Field Office

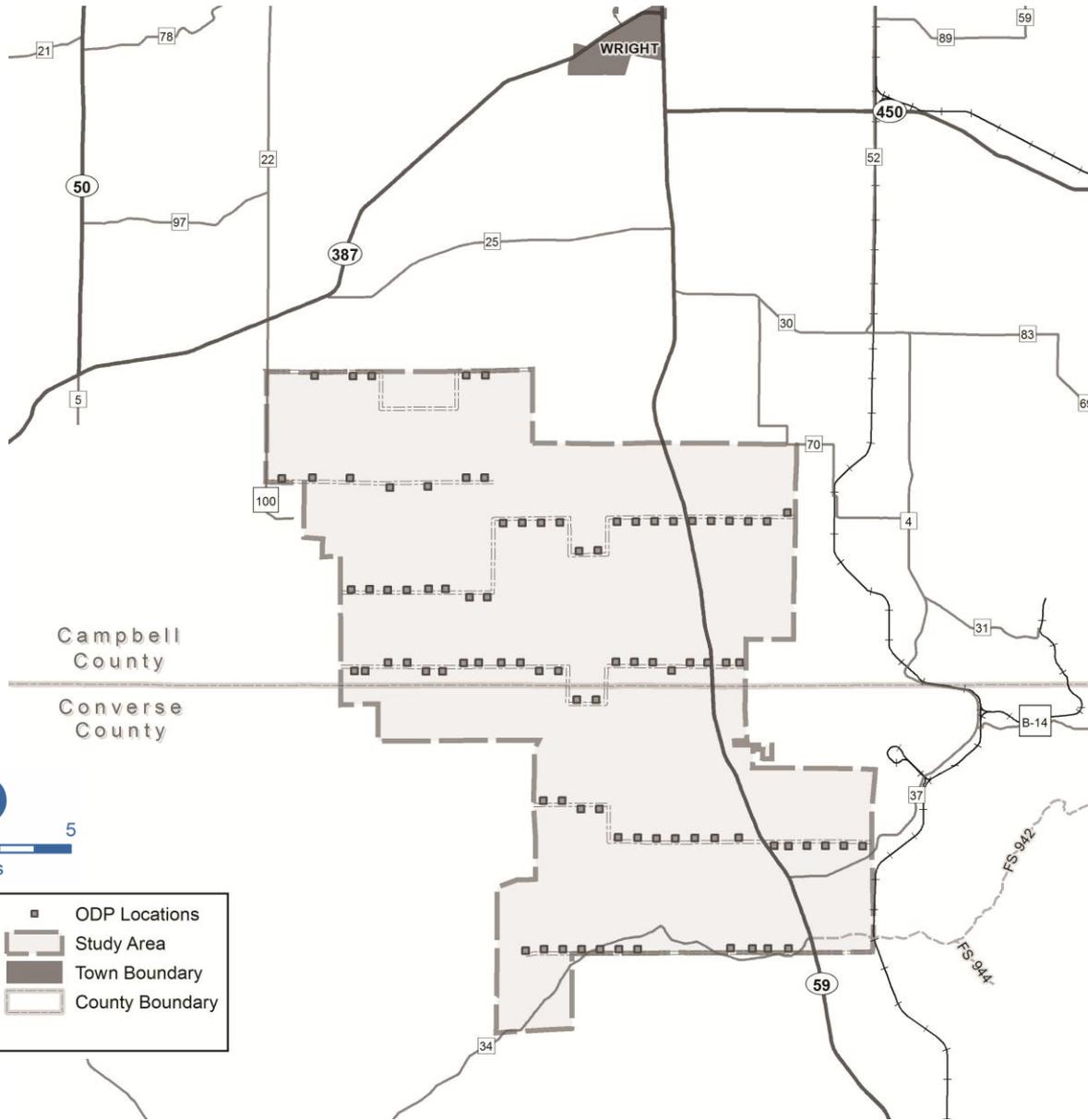


The purpose of this Public Scoping meeting is to:

- Describe the proposed project
- Describe BLM's role
- Describe the NEPA and EIS Process
- Get your input on issues and concerns to be considered in the EIS



Project Location



	Primary Corridors		ODP Locations
	Study Area		Town Boundary
	State Highway		County Boundary
	County Road		
	Forest Service Road		
	Railroads		



Project Area

Status	Surface Acres	Mineral Acres
Private	93,140 (87%)	30,763 (29%)
State	8,192 (8%)	8,020 (8%)
Federal	5,655 (5%) [USFS]	68,203 (64%) [BLM]
Total	106,987	106,987

Summary:

- 87% private surface
- 64% federal minerals
- Predominantly split-estate

- 1,500 oil & natural gas wells on 100 multi-well pads.
- Max. 22 wells/pad drilled to multiple formations
- Average of 150 wells per year over 10 years.
- “Spine and rib” development pattern.
- Up to 125,000 hp of new compression.



Water Management (on-site)

Water for drilling and completion:

- Four existing, permitted wells.
- Ten new water wells and storage ponds.
- Water piped within “spine and rib” system.
- Recycled water for completions.

Produced water disposal:

- Initially trucked to licensed disposal facilities.
- Converting four existing wells for disposal.



Surface Disturbance

DESIGN FEATURE	NUMBER	LENGTH (MILES)	INITIAL WIDTH (FEET)	INITIAL FACILITY SIZE (ACRES)	INITIAL DISTURBANCE (ACRES)	LONG-TERM WIDTH (FEET)	LONG-TERM FACILITY SIZE (ACRES)	LONG-TERM DISTURBANCE (ACRES)
ODPs	100	NA	NA	27*	2,700	NA	21**	2,100
Primary Corridors	NA	64	205	NA	1,590	8	NA	62
Secondary Corridors	NA	5	205	NA	124	8	NA	5
Corridor Connectors/ Cross-Country Pipelines	NA	20	205	NA	496	8	NA	20
Access Roads	NA	103	60	NA	749	40	NA	499
Water Wells	10	NA	NA	4	40	NA	2	20
Water Storage Ponds	10	NA	NA	9	90	NA	90	90
Electric Utility Lines	NA	100	20	NA	242	8	NA	97
Compressor Stations	10	NA	NA	10	100	NA	10	100
TOTALS	NA	NA	NA	NA	6,131*	NA	NA	2,993**

*4 acres of initial disturbance/well

**2 acres of long-term disturbance/well



EOG committed

To increase efficiencies to reduce impacts to raptors and other resources.

- Spine (utilities) & rib (multi-well “opti” pads)
 - Consolidates disturbance
 - Roads with or parallel to corridors
- Closed-loop drilling
- On-site water management
- Year-round development
 - Raptor mitigation plan



Manager of Federal Minerals

- Federal Land Policy & Management Act (1976)
- Mineral Leasing Act (1920)
- Energy Policy Act (2005)
- Onshore Orders



Federal Environmental Laws

- National Environmental Policy Act (1969)
- Clean Air Act (1963)
- Clean Water Act (1972)
- National Historic Preservation Act (1966)
- Endangered Species Act (1973)
- Migratory Bird Treat Act (1918)
- Bald & Golden Eagle Protection Act (1940)

Cooperating Agencies

Federal Agencies

- ▶ U.S. Environmental Protection Agency
- ▶ U.S. Fish & Wildlife Service
- ▶ U.S. Department of Agriculture. Medicine Bow-Routt National Forest, Thunder Basin Grasslands
- ▶ U.S. Department of the Interior, National Park Service

State Agencies (WY Governor's Office) Local Governments

- ▶ Department of Agriculture
 - ▶ Department of Environmental Quality
 - ▶ Game & Fish Department
 - ▶ Office of State Lands & Investments
 - ▶ Oil & Gas Conservation Commission
 - ▶ State Engineer
 - ▶ State Historic Preservation Office
- ▶ Campbell County Commission
 - ▶ Campbell County Conservation District
 - ▶ Converse County Commission
 - ▶ Converse County Conservation District
 - ▶ Johnson County Commission
 - ▶ Natrona County Commission



National Historic Preservation Act Section 106 Consultation

- Government – to – Government consultation with interested tribes
- To take into account the effects of agency undertakings on historic properties

Endangered Species Act Section 7 Consultation

- Consultation with the U.S. Fish and Wildlife Service
- To ensure authorized actions are not likely to jeopardize the continued existence of threatened or endangered species, or result in destruction of critical habitat.

Purpose:

- Declare a national policy which will encourage productive and enjoyable harmony between man and his environment;
- Promote efforts which will prevent or eliminate damage to the environment and stimulate the health and welfare of man.



NEPA Requirements

- Identify key issues to focus analysis
- Identify reasonable alternatives to consider and analyze
- Describe existing environmental conditions
- Identify environmental consequences/impacts of proposed projects and ways to avoid or reduce impacts.
- Findings from EIS help public officials make informed decisions about the project.





We Are
Here

- ▶ Publish Notice of Intent
- ▶ Scoping Period (Comments due December 31, 2015)
- ▶ Prepare Draft EIS
- ▶ Publish Draft EIS (Summer, 2017)
- ▶ Public Comment Period
- ▶ Respond to Public Comments/ Prepare Final EIS
- ▶ Publish Final EIS (Summer, 2018)
- ▶ Public Availability Period
- ▶ Prepare Record of Decision
- ▶ Issue Record of Decision (Fall 2018)

Scoping

- The process Federal agencies use in early stages of preparing an EIS to solicit input on issues, concerns, and opportunities that may arise.
- Public participation and input on the proposed project and alternatives development is encouraged.
- Issues and concerns from the public drive the agency's alternative formulation process, separate from the proponent's routing efforts.



Potentially Affected Resources

The EIS will provide a detailed study of human and natural resources including:

Human Resources:

- Human Health & Safety
- Socioeconomic Conditions
- Environmental Justice
- Visual Resources
- Transportation
- Farmlands & Range Lands
- Land Use
- Cultural Resources

Natural Resources:

- Air Quality & Climate Change
- Geological & Mineral Resources
- Paleontological
- Soils
- Vegetation
- Water Resources
- Wildlife

Stockraising Homestead Act (1916)

- Reserved the minerals to the Federal government.
- Federal mineral lessee has the right to the property



Non-federal Surface/Federal Minerals

- BLM manages oil and gas leases
- The Operator must make a good faith effort to negotiate a surface use.
- The Land Owner is invited to meetings and to report compliance concerns to BLM.



Tips for providing comments:

- Keep your comments focused on the proposed project being analyzed.
- Submit your comments by the deadline: **December 31, 2015**.
- Sign up for the mailing list to receive notices of project progress.
- Provide your ideas for project alternatives and potential impacts of concern.



Provide your comments on the project:

- At the meeting:
 - Fill out a comment form and submit it.
- After the meeting:
 - E-mail: blm_wy_buffalogceis@blm.gov
 - Mail: Greater Crossbow Project
Attn: Tom Bills, Project Manager
BLM, Buffalo Field Office
1425 Fort Street
Buffalo, Wyoming 82834-2436
 - Fax: (307) 684-1122

Comments must be postmarked by December 31, 2015



Next Steps:

- Comment period closes December 31, 2015
- Public Scoping report published March, 2016
- Draft Environmental Impact Statement (EIS), July, 2017
- Draft EIS public comment period, July-August 2017
- Final EIS published, August, 2018
- BLM Record of Decision, December, 2018



For more information:

- Tom Bills, Project Manager, (307) 684-1133
- E-mail: blm_wy_buffalogceis@blm.gov
- Website:
www.blm.gov/wy/st/en/info/NEPA/documents/bfo/GC/html

