

**United States Department of the Interior
Bureau of Land Management**

**Environmental Assessment
DOI-BLM-WY-070-EA10-247**

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**Previously Sold Lease Parcels
June 2008-May 2010**

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Table of Contents

RESOURCE CHECKLIST	1
1 INTRODUCTION	5
1.1 PURPOSE AND NEED	6
1.2 CONFORMANCE WITH APPLICABLE LAND USE PLAN AND OTHER ENVIRONMENTAL ASSESSMENTS	6
1.3 LEASING	6
1.4 FEDERAL, STATE OR LOCAL PERMITS, LICENSES OR OTHER CONSULTATION REQUIREMENTS	7
2 PROPOSED ACTIONS AND ALTERNATIVES.....	9
2.1 ALTERNATIVE A NO ACTION	9
2.2 ALTERNATIVE B PROPOSED ACTION	9
2.3 ALTERNATIVE C FULL LEASE ISSUANCE.....	10
3 DESCRIPTION OF AFFECTED ENVIRONMENT	11
3.1 AIR RESOURCES	11
3.1.1 <i>Air Quality</i>	11
3.1.2 <i>Visibility</i>	12
3.1.3 <i>Climate</i>	16
3.1.4 <i>Visibility</i>	19
3.2 WILDLIFE.....	24
3.2.1 <i>Special Status Species</i>	24
3.3 LANDS WITH WILDERNESS CHARACTERISTICS	25
3.4 SOCIOECONOMIC RESOURCES.....	26
4 ENVIRONMENTAL EFFECTS	30
4.1 AIR RESOURCES	30
4.1.1 <i>Air Quality</i>	30
4.1.2 <i>Greenhouse Gas Emissions</i>	31
4.2 WILDLIFE.....	36
4.2.1 <i>Special Status Species</i>	36
4.3 LANDS WITH WILDERNESS CHARACTERISTICS	36
4.4 SOCIOECONOMICS	37
4.5 CUMULATIVE IMPACTS	38
5 DESCRIPTION OF MITIGATING MEASURES AND RESIDUAL IMPACTS	41
6 CONSULTATION/COORDINATION.....	42
7 REFERENCES	42
7.1 AUTHORITIES.....	43
8 APPENDIX A.....	44
8.1 JUNE 2008 FINAL PARCEL LIST	45
8.2 AUGUST 2008 FINAL PARCEL LIST.....	45

8.3	OCTOBER 2008 FINAL PARCEL LIST	52
8.4	DECEMBER 2008 FINAL PARCEL LIST	62
8.5	FEBRUARY 2009 FINAL PARCEL LIST	70
8.6	APRIL 2009 FINAL PARCEL LIST	79
8.7	JUNE 2009 FINAL PARCEL LIST	91
8.8	AUGUST 2009 FINAL PARCEL LIST.....	103
8.9	OCTOBER 2009 FINAL PARCEL LIST	112
8.10	DECEMBER 2009 FINAL PARCEL LIST	130
8.11	FEBRUARY 2010 FINAL PARCEL LIST	134
8.12	MAY 2010 FINAL PARCEL LIST	137
9	APPENDIX B.....	139

Resource Checklist

Bureau of Land Management, Buffalo Field Office
 DOI-BLM-WY-070-EA10-247
 June 2008 thru May 2010 Lease Issuance for the Buffalo Field Office

RESOURCE CHECKLIST

This is a checklist accounting for potential resources that may be effected by leasing and require analysis which may affect the selection of one of three alternatives.

Determination	Resource	Rationale for Determination
	AIR RESOURCES	Impacts of surface disturbing activities on air resources were analyzed in the Powder River RMP/FEIS (pgs 4-354-404)
NI	Air Quality	Impacts of surface disturbing activities on air quality were analyzed in the 2003 Powder River RMP/FEIS (pgs 4-354-404)
PI	Climate	New information on climate change is available.
PI	Greenhouse Gas Emissions	No direct greenhouse gas emissions associated with leasing. New information on greenhouse gas emissions available.
NI	Visibility	Impacts of surface disturbing activities on visibility were analyzed in the Powder River RMP/FEIS (pg 4-314-404)
	WILDLIFE	
PI	Threatened, Endangered or Candidate Animal Species	Effects of surface disturbing activities were analyzed in the Powder River RMP/FEIS (pgs 4-216-273). New information and policy changes are discussed further in the EA.
NI	Threatened, Endangered or Candidate Plant Species	Effects of surface disturbing activities were analyzed in the Powder River RMP/FEIS (pgs 4-216-273).
NI	Vegetation Excluding Federally Listed Species	Effects of surface disturbing activities were analyzed in the Powder River RMP/FEIS (pgs 4-216-273).
NI	Aquatic and Terrestrial	Effects of surface disturbing activities were analyzed in the Powder River RMP/FEIS (pgs 4-

	Excluding Federally Listed Species	216-273).
NI	Migratory Birds	Affects to migratory birds were analyzed in the Powder River RMP/FEIS (pgs 4-231-235).
PI	LANDS WITH WILDERNESS CHARACTERISTICS	Lands containing wilderness characteristics were analyzed, and the results can be viewed at the Buffalo Field Office.
NI	Visual Resources	Impacts of surface disturbing activities were analyzed in the Powder River RMP/FEIS with appropriate mitigation measures attached to lease parcels. In addition the VRM BMPs would be implemented based on a site specific NEPA if development were initiated.
NI	Wild and Scenic Rivers	No effects associated with leasing beyond what is currently addressed in the Powder River RMP/FEIS.
NI	Wilderness/WSA	No effects associated with leasing beyond what is currently addressed in the Powder River RMP/FEIS.
NI	Areas of Critical Environmental Concern	No effects associated with leasing beyond what is currently addressed in the Powder River RMP/FEIS.
N/A	BLM Natural Areas	No effects, there are no BLM Natural Areas identified within the subject parcels.
PI	SOCIO-ECONOMIC RESOURCES	The affects to socio-economic resources were analyzed in the Powder River RMP/FEIS (pgs 4-336-369). Socioeconomic data was updated, and analysis based on more recent information is provided.
NP	Environmental Justice	No effects associated with leasing beyond what is currently addressed in the Powder River RMP/FEIS.
NP	Farmlands (Prime or Unique)	No effects associated with leasing, as there are no Farmlands (Prime or Unique) identified within the subject parcels.
NI	Livestock Grazing	Impacts of surface disturbing activities were analyzed in the Powder River RMP/FEIS (pgs 4-293)with appropriate mitigation measures attached to lease parcels.
NP	Rangeland Health Standards	No effects associated with leasing beyond what is currently addressed in the RMP. Impacts of surface disturbing activities were analyzed in the Powder River RMP/FEIS (pgs 4-293).
NI	Soils	Impacts of surface disturbing activities were

		analyzed in the Powder River RMP/FEIS with appropriate mitigation measures attached to lease parcels.
NI	Invasive Species/Noxious Weeds	Impacts of surface disturbing activities were analyzed in the Powder River RMP/FEIS (pgs 4-158-160)
NI	Recreation	Impacts of surface disturbing activities were analyzed in the Powder River RMP/FEIS (pgs 4-151-355)
NI	Lands/Access	Impacts of surface disturbing activities were analyzed in the Powder River RMP/FEIS (pgs 4-298-302)
NI	Geology/Mineral Resources/Energy Production	Impacts of surface disturbing activities were analyzed in the Powder River RMP/FEIS (pgs 4-125-134)
NI	Wastes (hazardous, solid or liquid)	Impacts of surface disturbing activities were analyzed in the Powder River RMP/FEIS (pgs 4-374)
NI	Wetlands/Riparian Zones	Impacts of surface disturbing activities were analyzed in the Powder River RMP/FEIS (pgs 4-152-179)
NI	Floodplains	Impacts of surface disturbing activities were analyzed in the Powder River RMP/FEIS (pgs 4-152-179)
NI	Hydrologic Conditions	Impacts of surface disturbing activities were analyzed in the Powder River RMP/FEIS (pgs 4-50 and 4-176)
NI	Water Resources/Quality (drinking/surface/ground)	Impacts of surface disturbing activities were analyzed in the Powder River RMP/FEIS (pgs 4-152-179)
NI	Paleontology	The act of the proposed action (leasing) would have no affect on this resource. Impacts of surface disturbing activities were analyzed in the Powder River RMP/FEIS (pgs 4-152-179)
NI	Native American Religious Concerns	Impacts of surface disturbing activities were analyzed in the Powder River RMP/FEIS (pgs 4-152-179)
NI	Cultural Resources	Impacts of surface disturbing activities were analyzed in the Powder River RMP/FEIS (pgs 4-152-179)
NP	Woodland/Forestry	No effects associated with leasing.
NP	Fuels/Fire Management	No effects associated with leasing beyond what is currently addressed in the Powder River RMP/FEIS.

NP	Wild Horses and Burros	No effects associated with leasing.
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DETERMINATION –

NP – not present in the area impacted by the proposed or alternative actions

NI – present, but adequately analyzed in RMP/FEIS for leasing actions

PI – present, not analyzed in RMP/FEIS or new information requires further analysis in the EA

BUREAU OF LAND MANAGEMENT
BUFFALO FIELD OFFICE
ENVIRONMENTAL ASSESSMENT FOR
PREVIOUSLY SOLD LEASE PARCELS
JUNE 2008 THRU MAY 2010
DOI-BLM-WY-070-EA10-247

1 INTRODUCTION

It is the policy of the Bureau of Land Management (BLM) as derived from various laws, including the Mineral Leasing Act of 1920, as amended [30 U.S.C. 181 et seq.] and the Federal Land Policy and Management Act of 1976, to make mineral resources available for disposal and to encourage development of mineral resources to meet national, regional, and local needs.

As required under the Mineral Leasing Act and the Federal Onshore Oil and Gas Leasing Reform Act of 1987 (FOOGLRA), the BLM Wyoming State Office conducts a quarterly competitive lease sale to sell available oil and gas lease parcels. A Notice of Competitive Lease Sale, which lists lease parcels to be offered at the auction, is published by the BLM State Office at least 45 days before the auction is held. Lease stipulations applicable to each parcel are specified in the Sale Notice. The decision as to which public lands and minerals are open for leasing and what leasing stipulations may be necessary, based on information available at the time, is made during the land use planning process. Surface management of non-BLM administered land overlaying federal minerals is determined by BLM in consultation with the appropriate surface management agency or the private surface owner.

In the process of preparing a lease sale the BLM State Office sends a draft parcel list to each field office where the parcels are located. Field Office staff then review the legal descriptions of the parcels to determine whether or not: there are areas open to leasing, appropriate stipulations have been included, new information has become available which might change any analysis conducted during the planning process, appropriate consultations have been conducted, and if there are special resource conditions of which potential bidders should be made aware. Each Field Office confirms this review by preparing a Documentation of NEPA Adequacy (DNA) which supports BLM's decision that there have been no changes in circumstances warranting further NEPA analysis. Once draft parcels are reviewed and DNAs are completed and returned to the State Office, a list of available lease parcels and stipulations is made available to the public through a Notice of Competitive Lease Sale (NCLS).

On rare occasions, additional information obtained after the publication of the NCLS, may result in withdrawal of certain parcels prior to the day of the lease sale.

From June 2008 through May 2010 a total of 101 individual parcels (38,189.77 acres) in the Buffalo Field Office were analyzed under DNAs for sale; all available parcels were subsequently sold and monies have been received. The following Environmental Assessment (EA) documents a comprehensive review by the Buffalo Field Office of the 101 parcels that were offered and

sold, but have not been issued during Competitive Oil and Gas Lease Sales conducted during the time from of June 2008 through May 2010. However, leases have been issued for the following parcels: WY-0810-18, WY-0812-30, WY-0812-32, WY-0812-36, and WY-0812-88. While these parcels were included in a general protest of the October 2008 and December 2008 lease sales, the protesters did not identify any specific issues directly related to these particular parcels. The protesters made a general allegation of injury or harm, but never demonstrated that issuing the leases would result in adverse impacts to resource values of the subject parcels. All parcels addressed in this EA are under the administration of the Buffalo Field Office. The EA serves to verify conformance with the approved land use plan, addresses new information, and provides the rationale for issuing parcels sold during the aforementioned lease sales.

1.1 Purpose and Need

The purpose of this document is to analyze the impacts of issuing leases for parcels sold at several previous competitive oil and gas lease sales to allow private individuals or companies to explore for and develop oil and gas resources on public lands. The decision to offer parcels at previous competitive lease sales from June 2008 through May 2010 were supported by DNAs; however, given the passage of time and potential environmental issues that have arisen since those sales. BLM has prepared this EA to analyze whether it remains appropriate to issue leases for these parcels.

The sale and issuance of oil and gas leases is needed to meet the growing energy needs of the United States public. Wyoming is a major source of natural gas for heating and electrical energy production in the lower 48 states, especially for markets in the Eastern United States. Continued sale and issuance of lease parcels is necessary to maintain options for production as oil and gas companies seek new areas for production or attempt to develop previously inaccessible or uneconomical reserves.

1.2 Conformance with Applicable Land Use Plan and Other Environmental Assessments

Pursuant to 40 Code of Federal Regulations (CFR) 1508.28 and 1502.21, this environmental assessment (EA) tiers to and incorporates by reference the information and analysis contained in the Powder River Basin Resource Management Plan and Final Environmental Impact Statement (2003) (PRB RMP/EIS). The PRB RMP/EIS was approved by a Record of Decision (ROD) signed April 30, 2003.

According to the Powder River RMP ROD, “the Project Area is about 8 million acres BLM administers the federal minerals under 4,326,704 acres (68 percent of the Project Area). About 3,182,634 acres in the planning area (40 percent) are split estate (private surface and federal minerals). The RMP describes specific stipulations that would be attached to new leases offered over federal minerals.

1.3 Leasing

Analysis as required by the National Environmental Policy Act (NEPA) of 1969, as amended (Public Law 91-90, USC 4321 *et seq.*) was conducted by Field Office resource specialists who relied on personal knowledge of the areas involved and/or reviewed existing databases and file

information to determine if appropriate stipulations had been attached to specific parcels prior to being made available for lease.

It is unknown when, where or if future well sites or roads might be proposed. Detailed site specific analysis of individual wells or roads would occur when a lease holder submits an Application for Permit to Drill (APD).

Issuance of leases would not be in conflict with any local, county, or state plans.

The following DNA documents were prepared by the Buffalo Field Office in support of the decisions to offer the subject parcels for sale, and provide additional information on the site specific characteristics of each parcel:

Lease Sale	NEPA Documentation	Date Signed
June 2008 parcels	Documentation of NEPA Adequacy	2/5/2008
August 2008 parcels	Documentation of NEPA Adequacy	3/27/2008
October 2008 parcels	Documentation of NEPA Adequacy	6/11/2008
December 2008 parcels	Documentation of NEPA Adequacy	8/20/2008
February 2009 parcels	Documentation of NEPA Adequacy	10/8/2008
April 2009 parcels	Documentation of NEPA Adequacy	12/3/2008
June 2009 parcels	Documentation of NEPA Adequacy	2/23/2009
August 2009 parcels	Documentation of NEPA Adequacy	4/14/2009
October 2009 parcels	Documentation of NEPA Adequacy	6/15/2009
December 2009 parcels	Documentation of NEPA Adequacy	8/11/2009
February 2010 parcels	Documentation of NEPA Adequacy	10/27/2009
May 2010 parcels	Documentation of NEPA Adequacy	1/22/2010

1.4 Federal, State or Local Permits, Licenses or Other Consultation Requirements

Purchasers of oil and gas leases are required to obey all applicable federal, state, and local laws and regulations including obtaining all necessary permits required should lease development occur.

Buffalo Field Office endangered species specialists reviewed each parcel prior to them being offered for sale. They determined that leasing all 101 parcels would be in compliance with threatened and endangered species management guidelines as there are no documented T&E species, or their habitats, located within these 101 parcels. No further consultation with the U.S. Fish and Wildlife Service is required for these 101 parcels.

2 PROPOSED ACTIONS AND ALTERNATIVES

A total of 101 lease parcels were analyzed for sale through lease sales occurring from June 2008 through May 2010. A total of 38,189.77 acres have been sold but no leases have been issued.

2.1 Alternative A No Action

The BLM NEPA Handbook (H-1790-1) states that for Environmental Assessments (EAs) on externally initiated proposed actions, the No Action Alternative generally means that the proposed action would not take place. In the case of a lease sale, this would mean that an expression of interest to lease (parcel nomination) would be denied or rejected, or if a parcel has been sold, a lease would not be issued for that parcel.

Under the No Action alternative, the BLM would not issue leases for any of the 101 parcels previously offered for sale. Surface management would remain the same and ongoing oil and gas development would continue on surrounding federal, private, and state leases. The BLM would offer a choice to high bidders on parcels with the unissued leases. One option would be for the BLM to reject the high bidder's offer for a parcel and refund paid bonus bids, rents and filing fees. The other option would be where a high bidder chose to accept the lease issuance with any necessary additional stipulations. For purposes of analysis, the no action alternative assumes that high bidders would choose to cancel the purchase and accept the refund.

It is not expected that demand for energy oil and gas will go down, and a decision to not issue these leases would not prevent future leasing in these areas consistent with land use planning decisions, and subject to appropriate stipulations, identified in the Resource Management Plan. Therefore, it is anticipated that these parcels may be nominated and leased at a future date. While future leases may contain more restrictive lease terms, it is reasonable to consider that a substantial portion of the development possible under current planning decisions will be possible under future leases.

2.2 Alternative B Proposed Action

The Proposed Action would be a recommendation to the State Director to issue leases for 75 parcels that have been sold for oil and gas development containing approximately 29,200.82 acres of federal minerals administered by the Buffalo Field Office. Standard terms and conditions as well as special stipulations would apply. Lease stipulations (as required by Title 43 Code of Federal Regulation 3131.3) were added to each parcel as identified by the Buffalo Field Office to address site specific concerns or new information not identified in the land use planning process.

Additionally, there is a recommendation to the State Director to defer issuance of leases for a total of 26 parcels. These 26 parcels, containing 8,988.95 acres, are recommended for deferral pending completion of the Buffalo RMP, as issuing leases for these parcels now may constrain potential management objectives currently under consideration in the RMP amendment process. Once management direction has been specified and the Buffalo RMP finalized, additional stipulations may be attached with the High Bidder's mutual agreement. BLM may also determine that it will not issue leases for certain parcels.

In particular, 15 parcels are recommended for deferral to address Sage Grouse in the RMP and 3 are recommended to address Wilderness Characteristics in the RMP. Eight parcels are being recommended for deferral to address potential conflicts with coal mine activities.

The entire list of all parcels addressed in this EA, with their stipulations, can be found in Appendix A. All parcels for Alternative B are listed in Appendix B with the parcel number, acreage, lease number, purchase and deferral information.

Once sold, the lease purchaser has the right to use so much of the leased lands as is reasonably necessary to explore and drill for all of the oil and gas within the lease boundaries, subject to the stipulations attached to the lease (Title 43 Code of Federal Regulation 3101.1-4).

Oil and gas leases are issued for a 10-year period and continue for as long thereafter as oil or gas is produced in paying quantities. If a lessee fails to produce oil and gas, does not make annual rental payments, does not comply with the terms and conditions of the lease, or relinquishes the lease; ownership of the minerals leased revert back to the federal government and may be leased again.

Before a lease owner or operator conducts any surface disturbing activities on the lease, BLM must first approve and Application for Permit to Drill (APD) and a surface use plan specified in Title 43 Code of Federal Regulation 3162.

Surface use restrictions, including timing limitation stipulations (TLS), NSO stipulations, and controlled surface use (CSU) stipulations, as well as unavailable for leasing designations, cannot be retroactively applied to valid, existing oil and gas leases or to valid, existing use authorizations (e.g., Application for Permit to Drill [APD]). Post-lease actions/authorizations (e.g., APDs, road/pipeline ROWs), however, could be encumbered by TLS and CSU restrictions on a case-by-case basis, as required through project-specific NEPA analysis or other environmental review.

2.3 Alternative C Full Lease Issuance

Under Alternative C, leases would be issued for all 101 parcels with the stipulations recommended at the time of offering as detailed in Appendix A.

3 DESCRIPTION OF AFFECTED ENVIRONMENT

This section describes the environment that would be affected by implementation of the alternatives described in Section 2. Aspects of the affected environment described in this section focus on relevant major resources and issues. Certain critical environmental components require analysis under BLM policy. Only those aspects of the affected environment that are potentially impacted are described in detail.

The proposed lease parcels are located in Campbell, Johnson and Sheridan Counties, Wyoming. This environmental assessment (EA) tiers to and incorporates by reference the information and analysis contained in the Powder River Basin Environmental Impact Statement approved in 2003.

In addition to the air quality information in the RMP/EIS cited above, new information about GHGs and their effects on national and global climate conditions has emerged since the RMP was prepared. On-going scientific research has identified the potential impacts of GHG emissions such as carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), water vapor; and several trace gases on global climate. Through complex interactions on a global scale, GHG emissions cause a net warming effect of the atmosphere, primarily by decreasing the amount of heat energy radiated by the earth back into space. Although GHG levels have varied for millennia (along with corresponding variations in climatic conditions), industrialization and burning of fossil carbon sources have caused GHG concentrations to increase measurably, and may contribute to overall climatic changes. This EA incorporates analysis of the contributions of the proposed action to GHG emissions and a general discussion of potential impacts to climate.

3.1 Air Resources

Air quality and climate are the components of air resources, which include applications, activities, and management of the air resource. Therefore, the BLM must consider and analyze the potential effects of BLM and BLM-authorized activities on air resources as part of the planning and decision making process.

3.1.1 Air Quality

Throughout the United States, controlling air pollutants is mandated by the Clean Air Act (CAA) and its amendments. The CAA imposes an obligation on all federal agencies including the Bureau of Land Management (BLM), to comply with all state and local air pollution requirements. The CAA addresses criteria air pollutants, State and National Ambient Air Quality Standards (NAAQS) for criteria air pollutants, and the Prevention of Significant Deterioration (PSD) program. Further, the National Environmental Policy Act (PL 91-190; 01 January 1970) (NEPA) requires the BLM to "... promote efforts which will prevent or eliminate damage to the environment ..." and to "... attain the widest range of beneficial uses ... without degradation, risk to health and safety, or other undesirable and unintended consequences ...". Protection of air quality is also a part of Federal Land Policy and Management Act (FLPMA) (PL 94-579; 21 October 1976) which states that "... it is the policy of the United States that ... the public lands be managed in a manner that will protect ... air and atmospheric ... values ..."

The air pollutants addressed in this assessment include criteria air pollutants, hazardous air pollutants (HAPs) and sulfur and nitrogen compounds, which could contribute to visibility impairment and atmospheric deposition, including acid rain. NAAQS set the maximum thresholds for criteria air pollutants. The Wyoming PSD program establishes allowable increases of a given pollutant for a particular area from specific sources. These standards and programs typically affect Class I or Sensitive Class II Wilderness Areas. The PSD program does not apply to the Buffalo planning area because PSD only applies to facilities located in Class I areas; there are no Class I areas located in planning area.

Air Pollutants

Air quality standards for criteria pollutants have been established by the United States Environmental Protection Agency (EPA) and are identified as the NAAQS. Concentrations of air pollutants greater than the national standards represent a risk to human health. Criteria pollutants include carbon monoxide (CO), nitrogen dioxide (NO₂), ozone (O₃), particulate matter (PM₁₀ and PM_{2.5}), sulfur dioxide (SO₂) and lead (Pb).

There are a wide variety of Hazardous Air Pollutants (HAPs) including benzene, toluene, ethylbenzene, xylene (also referred to as BETEX), N-hexane, and formaldehyde. Although HAPs do not have federal air quality standards (exposure thresholds do exist), some states have established “significance thresholds” to evaluate human exposure for potential chronic inhalation illness and cancer risks.

Wyoming and National Ambient Air Quality Standards

Wyoming Ambient Air Quality Standards (WAAQS) and National Ambient Air Quality Standards (NAAQS) identify maximum limits for criteria air pollutant concentrations at all locations to which the public has access. The WAAQS and NAAQS are legally enforceable standards. Concentrations above the WAAQS and NAAQS represent a risk to human health that by law, require public safeguards be implemented. State standards must be at least as protective of human health as federal standards, and may be more restrictive than the federal standards as allowed by the CAA.

3.1.2 Visibility

Visibility can be expressed in terms of deciviews (dv), a measure for describing perceived changes in visibility. One dv is defined as a change in visibility that is just perceptible to an average person which is approximately a 10 percent change in light extinction. To estimate potential visibility impairment, monitored aerosol concentrations are used to reconstruct visibility conditions for each day monitored. These daily values are then ranked from clearest to haziest and divided into three categories to indicate the mean visibility for all days (average), the 20 percent of days with the clearest visibility (20 percent clearest), and the 20 percent of days with the worst visibility (20 percent haziest). Visibility can also be defined by standard visual range (SVR) measured in miles, and is the farthest distance at which an observer can see a black object viewed against the sky above the horizon; the larger the SVR, the cleaner the air.

Since 1980 the Interagency Monitoring of Protected Visual Environments (IMPROVE) network has measured visibility in national parks and wilderness areas. These are managed as high visual quality Class I and II areas by the federal visual resource management (VRM) program. There are six IMPROVE stations in Wyoming, including two located within the Buffalo planning area at the Thunder Basin National Grasslands and Cloud Peak National Wilderness areas.

Atmospheric Deposition

Atmospheric deposition refers to processes in which air pollutants are removed from the atmosphere and deposited into terrestrial and aquatic ecosystems. Air pollutants can be deposited by either wet (precipitation via rain or snow) or dry (gravitational) settling of particles and adherence of gaseous pollutants to soil, water, and vegetation. Much of the concern about deposition is due to secondary formation of acids and other compounds from emitted nitrogen and sulfur species such as nitrogen oxides (NO_x) and sulfur dioxide (SO₂), which may contribute to acidification of lakes, streams, and soils and affect other ecosystem characteristics, including nutrient cycling and biological diversity.

Substances deposited include:

- Acids, such as sulfuric (H₂SO₄) and nitric (HNO₃), sometimes referred to as acid rain
- Air toxics, such as pesticides, herbicides, and volatile organic compounds (VOCs)
- Heavy metals, such as mercury
- Nutrients, such as nitrates (NO₃⁻) and ammonium (NH₄⁺)

The accurate measurement of atmospheric deposition is complicated by contributions to deposition by several components: rain, snow, cloud water, particle settling, and gaseous pollutants. Deposition varies with precipitation and other meteorological variables (e.g., temperature, humidity, winds, atmospheric stability, etc.), which in turn, vary with elevation and time.

The United States Department of Agriculture (USDA) Forest Service (USFS) has established guidelines or Levels of Concern (LOC) for total deposition of nitrogen and sulfur compounds in Class I Wilderness Areas (USFS 2007). Total nitrogen deposition of 1.5 kilograms per hectare per year or less is considered to be unlikely to harm terrestrial or aquatic ecosystems. For total sulfur deposition, the LOC is five kilograms per hectare per year. A sulfur LOC of 1.5 kilograms per hectare per year is being considered. Note that these are the same LOCs used by the National Park Service.

Monitoring of Air Quality, Visibility, and Deposition in the Buffalo Planning Area

Air pollutant concentrations, visibility, and atmospheric deposition within and nearby the Buffalo planning area are continuously monitored by various state and federal agencies. Table 3-1 lists the available air quality monitoring sites within the Buffalo planning area (Sheridan, Johnson, and Campbell counties), including sites in adjacent counties (Weston and Converse counties). The Wyoming Department of Environmental Quality (DEQ) operates monitors as part of the State and Local Monitoring Site (SLAMS) network and the Special Purpose Monitoring (SPM) network. SLAMS sites include the Highland Park and Police Station monitors in

Sheridan County which measure PM_{10} and $PM_{2.5}$, and the Gillette site in Campbell County, which measures PM_{10} . SPM sites include the Arvada site in Sheridan County and the Thunder Basin, South Campbell County, Belle Ayr Mine, Wright, Black Thunder Mine, and Buckskin Mine sites in Campbell County.

There are two monitors in the IMPROVE network located at Cloud Peak in Johnson County and Thunder Basin in Campbell County. Monitors are operated by BLM in Johnson County as part of the Wyoming Air Resource Monitoring System (WARMS) and include the Buffalo site, which measures $PM_{2.5}$, nitrate, ammonium, nitric acid, sulfate, and SO_2 , and the Juniper site, which measures $PM_{2.5}$. Other WARMS monitors include the Sheridan site in Sheridan County, which measures sulfate and SO_2 , and the South Coal site in Campbell County which measures $PM_{2.5}$. Concentrations of nitrogen and sulfur compounds and ozone are measured by the Clean Air Status & Trends Network (CASTNet) at three sites in Wyoming, including Medicine Bow National Forest in southeast Wyoming near Centennial, Pinedale, and Yellowstone National Park. Since none of the CASTNet sites are located near the Buffalo planning area, data from these sites may not be representative of concentrations in the Buffalo planning area. Atmospheric deposition (wet) measurements of ammonium, sulfate, and various metals are taken at the Newcastle monitor, which is operated by BLM as part of the National Acid Deposition Program (NADP).

Table 3-1. Air Quality Monitoring Sites Within and Near the Buffalo Planning Area

County	Site Name	Type of Monitor	Parameter	Operating Schedule	Location	
					Longitude	Latitude
Air Quality Monitoring Sites Within the Planning Area						
Campbell	Thunder Basin	SPM	O3, NOx & Met	Hourly	-105.3000	44.6720
	South Campbell County	SPM	O3, NOx, PM10 & Met	1/3 (PM10) & hourly (NOx & O3)	-105.5000	44.1470
	Belle Ayr Mine	SPM	NOx & PM2.5	1/3 (PM2.5) & hourly (NOx)	-105.3000	44.0990
	Wright	SPM	PM10	1/6	-105.5000	43.7580
	Gillette	SLAMS	PM10	1/6	-105.5000	44.2880
	Black Thunder Mine	SPM	PM2.5	1/3	-105.2000	43.6770
	Buckskin Mine	SPM	PM2.5	1/3	-105.6000	44.4720
	South Coal	WARMS	PM2.5 & Meteorology		-105.8378	44.9411
Thunder Basin	IMPROVE	PM2.5, Nitrate, Ammonium, Nitric Acid, Sulfate, Sulfur Dioxide & Meteorology	1/3	-105.2874	44.6634	
Johnson	Buffalo	WARMS	PM2.5, Nitrate, Ammonium, Nitric Acid, Sulfate, Sulfur Dioxide & Meteorology	1/3 (PM2.5) & 1/7 (others)	-106.0189	44.1442
	Juniper	WARMS	PM2.5 & Meteorology	1/3 (PM2.5)	-106.2289	44.2103
	Cloud Peak	IMPROVE	PM2.5, Nitrate, Ammonium, Nitric Acid, Sulfate, Sulfur Dioxide & Meteorology	1/3	-106.9565	44.3335
Sheridan	Sheridan - Highland Park	SLAMS	PM10 & PM2.5	1/3 (PM10); 1/3 & 1/6 (PM2.5)	-107.0000	44.8060
	Sheridan - Police Station	SLAMS	PM10 & PM2.5	1/1 (PM10) & 1/3 & 1/6 (PM2.5)	-107.0000	44.8330
	Arvada	SPM	PM10		-106.1000	44.6540

	Sheridan	WARMS	PM2.5, Nitrate, Ammonium, Nitric Acid, Sulfate & Sulfur Dioxide	1/3 (PM2.5) & 1/7 (others)	-106.8472	44.9336
Air Quality Monitoring Sites Near the Planning Area						
Converse	Antelope Mine	SPM	NOx & PM2.5	1/3 (PM2.5) & hourly (NOx)	-105.4000	43.4270
Weston	Newcastle	WARMS	PM2.5, Nitrate, Ammonium, Nitric Acid, Sulfate, Sulfur Dioxide & Meteorology	1/3 (PM2.5) & 1/7 (others)	-104.1919	43.8731
	Newcastle	NADP	Wet deposition of ammonium, sulfate, metals	Weekly		

Source: WARMS 2009; EPA 2009b; IMPROVE 2009; Wyoming DEQ 2009a; Wyoming DEQ 2009b; NADP 2009

IMPROVE – Interagency Monitoring of Protected Visual Environments

NADP – National Acid Deposition Program

SLAMS – State and Local Monitoring Site

SPM – Special Purpose Monitoring

WARMS – Wyoming Air Resource Monitoring System

3.1.3 Climate

The climate in the resource area is temperate, a semi-arid region with long cold winters and short summers. The major factors controlling climate in the planning area are elevation, strong westerly winds, moisture flow, and mountainous barriers to the west. Elevations within the planning area are variable and relatively flat ranging from 4,544 feet near Gillette to 4,645 feet near Buffalo. The Big Horn Mountains along the western edge of the planning area rise to over 13,000 feet. In Gillette, temperatures range from approximately 31 to 59 degrees Fahrenheit (°F). Wind speed and direction are highly variable because of the impact of local topography in the planning area. Wind speeds are generally strong and gusts above 40 miles per hour are not unusual. Table 3.2 lists temperature, precipitation, and wind speed data for the planning area.

Table 3.2. Climate Information for the Buffalo Planning Area

Climate Component	Description
Temperature	Mean maximum summer temperature ¹ : 93.6 °F and 94.4 °F
	Mean minimum winter temperature ¹ : -5.9 °F and -7.8 °F
	Mean annual temperature ¹ : 45.6 °F and 45.2 °F
Precipitation	Mean annual precipitation: 13 to 17 inches
	Mean annual snowfall: 33 and 67 inches

Table 3.2. Climate Information for the Buffalo Planning Area

Climate Component	Description
Winds	Mean annual wind speed: 9.3 mph Prevailing wind direction: north/northwest

Source: EPA 2008b

¹ Buffalo and Gillette respectively

°F – degrees Fahrenheit

mph – miles per hour

Climate change refers to any significant change in measures of climate (e.g., temperature or precipitation) lasting for an extended period of time (decades or longer). Climate change may result from natural processes, such as changes in the sun’s intensity; natural processes within the climate system (such as changes in ocean circulation); human activities that change the atmosphere’s composition (such as burning fossil fuels) and the land surface (such as urbanization) (IPCC 2007).

Greenhouse gases that are included in the US Greenhouse Gas Inventory are: carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF₆). CO₂ and methane (CH₄) are typically emitted from combustion activities or are directly emitted into the atmosphere. On-going scientific research has identified the potential impacts of greenhouse gas emissions (including CO₂; CH₄; nitrous oxide (N₂O), water vapor; and several trace gasses) on global climate. Through complex interactions on at regional and global scales, these greenhouse gas emissions cause a net warming effect of the atmosphere (which making makes surface temperatures suitable for life on Earth), primarily by decreasing the amount of heat energy radiated by the Earth back into space. Although greenhouse gas levels have varied for millennia (along with corresponding variations in climatic conditions), recent industrialization and burning of fossil carbon sources have caused CO₂ concentrations to increase dramatically, and are likely to contribute to overall climatic changes, typically referred to as global warming. Increasing CO₂ concentrations also lead to preferential fertilization and growth of specific plant species.

Global mean surface temperatures have increased nearly 1.0°C (1.8°F) from 1890 to 2006 (Goddard Institute for Space Studies, 2007). However, observations and predictive models indicate that average temperature changes are likely to be greater in the Northern Hemisphere. Data indicates that northern latitudes (above 24° N) have exhibited temperature increases of nearly 1.2°C (2.1°F) since 1900, with nearly a 1.0°C (1.8°F) increase since 1970 alone. It also shows temperature and precipitation trends for the conterminous United States. For both parameters we see varying rates of change, but overall increases in both temperature and precipitation. Without additional meteorological monitoring systems, it is difficult to determine the spatial and temporal variability and change of climatic conditions, but increasing concentrations of greenhouse gases are likely to accelerate the rate of climate change.

In 2001, the Intergovernmental Panel on Climate Change indicated that by the year 2100, global average surface temperatures would increase 1.4 to 5.8°C (2.5 to 10.4°F) above 1990 levels. The National Academy of Sciences (2006) has confirmed these findings, but also indicated that there are uncertainties regarding how climate change may affect different regions. Computer model predictions forecasts indicate that increases in temperature will not be evenly or equally distributed, but are likely to be accentuated at higher latitudes. Warming during the winter months is expected to be greater than during the summer, and increases in daily minimum temperatures is more likely than increases in daily maximum temperatures.

Currently, the WDEQ-AQD does not have regulations regarding greenhouse gas emissions, although these emissions are regulated indirectly by various other regulations.

Some greenhouse gases such as carbon dioxide occur naturally and are emitted to the atmosphere through natural processes and human activities. Other greenhouse gases (e.g., fluorinated gases) are created and emitted solely through human activities. The primary greenhouse gases that enter the atmosphere as a result of anthropogenic activities include carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), and fluorinated gases such as hydrofluorocarbons, perfluorocarbons, and sulfur hexafluoride. These synthetic gases are powerful GHGs that are emitted from a variety of industrial processes.

Ongoing scientific research has identified the potential impacts of anthropogenic greenhouse gas (GHG) emissions and changes in biological sequestration due to land management activities on global climate. Through complex interactions on a regional and global scale, these GHG emissions and net losses of biological carbon sinks cause a net warming effect of the atmosphere, primarily by decreasing the amount of heat energy radiated by the earth back into space. Although GHG levels have varied for millennia, recent industrialization and burning of fossil carbon sources have caused CO₂ concentrations to increase dramatically, and are likely to contribute to overall global climatic changes. The Intergovernmental Panel on Climate Change (IPCC) recently concluded that “warming of the climate system is unequivocal” and “most of the observed increase in globally average temperatures since the mid-20th century is very likely due to the observed increase in anthropogenic greenhouse gas concentrations.”

Several activities contribute to the phenomena of climate change, including emissions of GHGs (especially carbon dioxide and methane) from fossil fuel development, large wildfires and activities using combustion engines; changes to the natural carbon cycle; and changes to radiative forces and reflectivity (albedo). It is important to note that GHGs will have a sustained climatic impact over different temporal scales. For example, recent emissions of carbon dioxide can influence climate for 100 years. In contrast, black carbon is a relatively short-lived pollutant, as it remains in the atmosphere for only about a week. It is estimated that black carbon is the second greatest contributor to global warming behind CO₂ (Ramanathan and Carmichael, 2008).

The lack of scientific tools designed to predict climate change at regional or local scales limits the ability to quantify potential future impacts. However, potential impacts to air quality due to climate change are likely to be varied. Several activities occur within the planning area that may

generate greenhouse gas emissions: oil, gas, and coal development, large fires, livestock grazing, and recreation using combustion engines which can potentially generate CO₂ and methane.

Some activities within the Planning Area generate greenhouse gas (GHG) emissions. Oil and gas development activities can generate carbon dioxide (CO₂) and methane (CH₄). CO₂ emissions result from the use of combustion engines, while methane can be released during processing. Wildland fires also are a source of other GHG emissions, while livestock grazing is a source of methane. Other activities in the Resource Area with the potential to contribute to climate change include soil erosion from disturbed areas and fugitive dust from roads, which have the potential to darken snow-covered surfaces and cause faster snow melt. A description of the potential greenhouse gas emissions associated with the proposed leasing activities is included in Section 4.

3.1.4 Visibility

There are several National Parks, National Forests, recreation areas, and wilderness areas in or adjacent to the Powder River Basin. Table 3.3 lists areas designated as Class I or Class II airsheds. National Parks, Monuments and some state designated Wilderness Areas are designated as Class I. The Clean Air Act “declares as a national goal the prevention of any future, and the remedying of any existing, impairment of visibility in mandatory Class I Federal areas . . . from manmade air pollution.” 42 U.S.C. § 7491(a)(1).25. Under the BLM Manual Section 8560.36, BLM lands, including wilderness areas not designated as Class I, are managed as Class II, which provides that moderate deterioration of air quality associated with industrial and population growth may occur. Figures 3.1 and 3.2 shows visibility estimates for the Thunder Basin and Cloud Peak sites.

Table 3-3. Class I and Class II Areas in the Vicinity of the Buffalo Resource Area

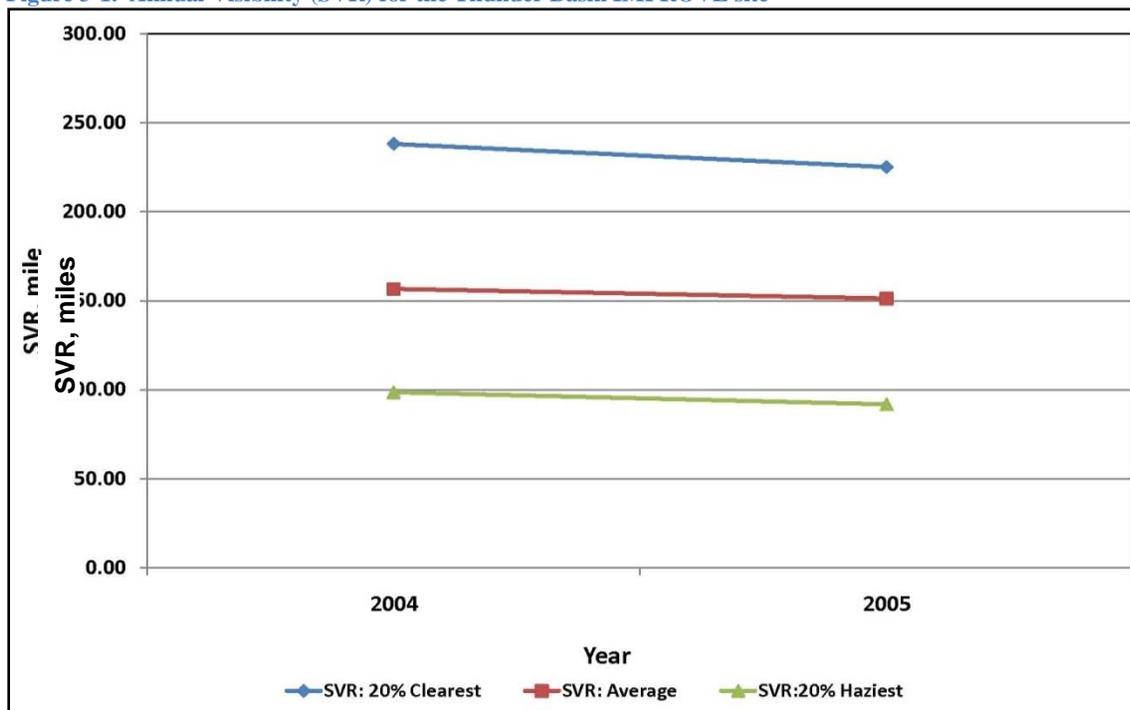
Area Type	Area Name	Closest Distance to the Buffalo Planning Area (miles)	Direction from the Buffalo Planning Area	Clean Air Act Status of the Area
National Park	Wind Cave National Park	110	Southeast	Class I
Recreation Area	Missouri National Recreational River	275	Southeast	Class II
Wilderness Areas	Cloud Peak Wilderness Area	within		Class II
	Badlands Wilderness Area	150	Southeast	Class I
National Forests	Bighorn National Forest	within		Class II
	Black Hills National Forest	20	East	Class II

	Thunder Basin National Grassland	within		Class II
National Monument	Devils Tower National Monument	20	East	Class II
Historic Trail	Lewis and Clark National Historic Trail	140	North	Class II
National Memorial	Mount Rushmore National Memorial	100	Southeast	Class II

Source: NPS 2006

As noted above, data collected at the Thunder Basin National Grasslands and Cloud Peak Wilderness IMPROVE monitoring sites have been used indirectly to measure visibility in the planning area. Figure 3-1 presents visibility data for the Thunder Basin IMPROVE site for the period 2004-2005, and Figure 3-2 presents visibility data for the Cloud Peak IMPROVE site for the period 2003-2007. The data for the two sites are consistent and show very good to excellent visibility ranges within the planning area, even for the 20 percent haziest days. Although there are not enough data to discern trends at the Thunder Basin site, the five-year record at the Cloud Peak site does show a very slight degradation of visibility over this time period.

Figure 3-1. Annual Visibility (SVR) for the Thunder Basin IMPROVE site

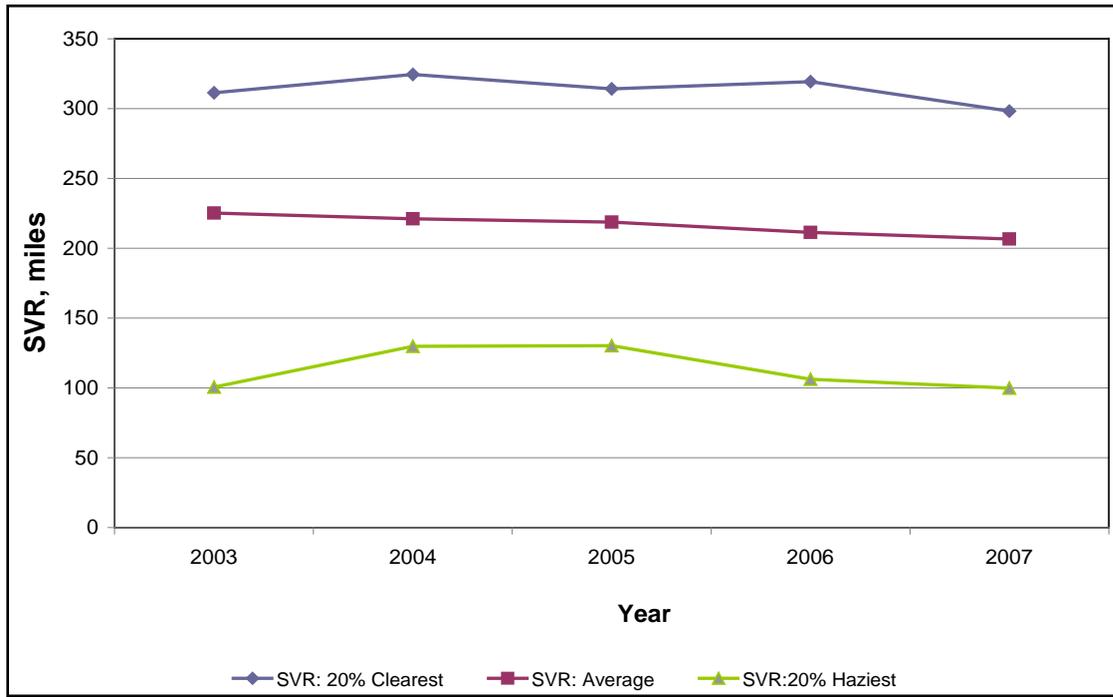


Source: IMPROVE 2009

IMPROVE – Interagency Monitoring of Protected Visual Environments

SVR – standard visual range

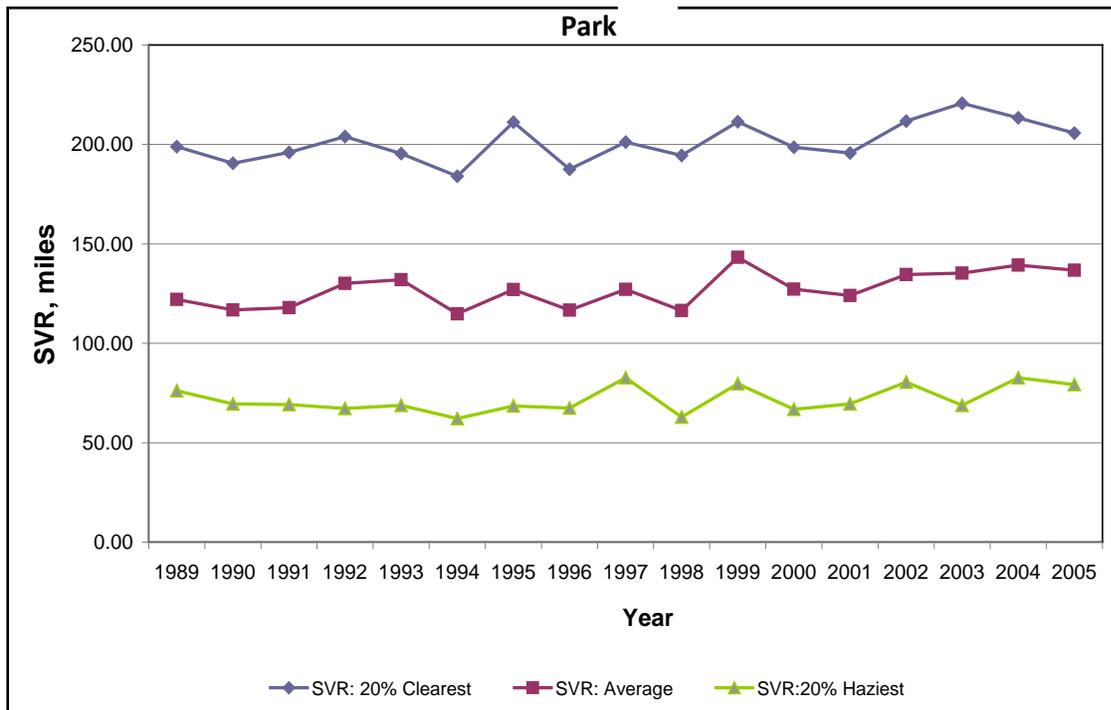
Figure 3-1. Annual Visibility (SVR) for the Cloud Peak IMPROVE site



Source: IMPROVE 2009
IMPROVE – Interagency Monitoring of Protected Visual Environments
SVR – standard visual range

In addition to visibility measurements within the Buffalo planning area, Figure 3-3 presents visibility estimates SVR for the Badlands National Park site, located east of the planning area, for the period 1989 to 2005. This figure shows the annual average visual range estimates and the estimates for the 20 percent clearest days and 20 percent haziest days. The visibility estimates for the Badlands site are lower than those for the Thunder Basin and Cloud Peak sites, but no real trend in visibility is discernable during this period at the Badlands monitor.

Figure 3-2. Annual Visibility (SVR) for the Badlands National Park IMPROVE site



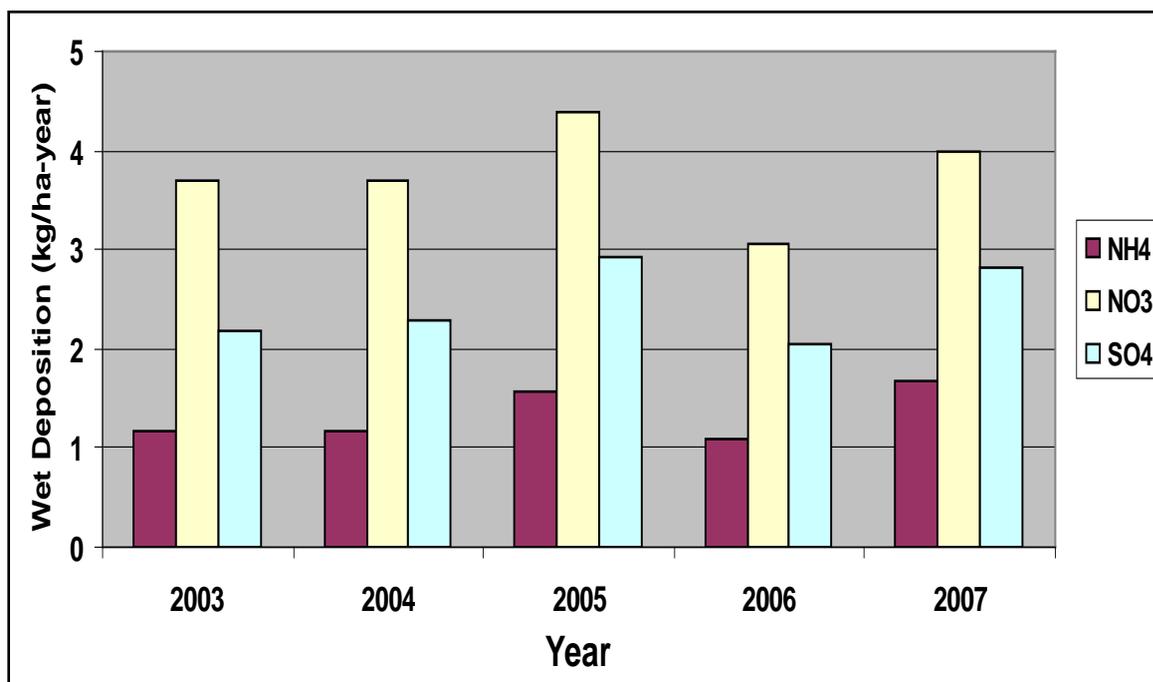
Source: IMPROVE 2009

IMPROVE – Interagency Monitoring of Protected Visual Environment; SVR – standard visual range

Atmospheric Deposition

There are no NADP or CASTNet/Water and Atmospheric Resource Monitoring stations in the planning area, but wet deposition measurements are available for the Newcastle NADP monitor, located just east of the area. Figure 3-4 presents mean annual wet deposition for NH₄, NO₃, and SO₄ for the period 2003 to 2007. There are no discernable trends in these measurements over this period. Wet nitrogen deposition (of NH₄ and NO₃) is exceeding the current LOCs at the Newcastle monitor for this period and wet sulfur deposition does not exceed the LOC at this site during this period.

Figure 3-3. Mean Annual Wet Deposition (kilogram per hectare per year) – Newcastle, Wyoming NADP Site



Source: NADP 2009

NADP – National Acid Deposition Program; NH₄ – ammonium; NO₃ – nitrate; SO₄ – sulfate

Hazardous Air Pollutants

Existing sources of HAPs, criteria pollutants, and greenhouse gases within the planning area include fossil fuel combustion that emits HAPs; oil, gas, and coal development operations that emit VOCs; NO_x; and hydrogen sulfide (H₂S). In addition, large fires are a source of HAPs emissions. The growth in resource development and accompanying increase in emissions from these types of sources will depend on a number of external factors that make it difficult to estimate actual trends in these pollutants in the planning area.

Summary of Air Quality Trends

Available air quality data for a number of criteria pollutants that were examined at various monitors located within and near the Buffalo planning area do not show any major upward or downward trends over the period of record. There is a slight upward trend in observed PM₁₀ concentrations observed at the Sheridan site during the last several years. Concentrations of PM_{2.5} and the fourth highest eight-hour average ozone concentration are consistent year to year without any discernable trends. Although trends were not explicitly calculated for SO₂, SO₄, NO₃, and NH₄, the data do not indicate any major trends for the six-year period examined at the Buffalo and Sheridan sites. The visibility data collected at the Cloud Peak and Thunder Basin site show very good to excellent visibility, even for the 20 percent haziest days, with a very slight degradation observed at the Cloud Peak monitor during the five-year period of record. The data collected at the Badlands National Park IMPROVE site show generally lower estimates of visibility range compared to Cloud Peak and Thunder Basin, with no distinct trend in visibility range during the 1989 to 2005 period. Wet deposition data of NH₄, NO₃, and SO₄ for the

Newcastle NADP site, located east of the planning area, also show no distinct trend in deposition over the 2003 to 2007 period examined in this analysis.

Key Features

Key features for air quality are Class I areas located near the planning area and Class II areas located within and near the planning area including: Cloud Peak Wilderness Area, Bighorn National Forest, Thunder Basin National Grassland, and Black Hills National Forest (to the east in South Dakota – not strictly in the planning area). Sensitive lakes or lakes sensitive to deposition of acidic atmospheric chemical species in the planning area would be found primarily in the Cloud Peak Wilderness and Bighorn National Forest.

3.2 Wildlife

3.2.1 Special Status Species

Section 7 of the ESA requires that BLM land managers ensure that any action authorized, funded, or carried out by the BLM is not likely to jeopardize the continued existence of any threatened or endangered species and that it avoids any appreciable reduction in the likelihood of recovery of affected species. Consultation is required on any action proposed by the BLM or another federal agency that affects a listed species or that jeopardizes or modifies critical habitat.

The BLM's Special Status Species Policy outlined in BLM Manual 6840 is to conserve listed species and the ecosystems on which they depend and to ensure that actions authorized or carried out by BLM are consistent with the conservation needs of special status species and do not contribute to the need to list any of these species. The BLM's policy is intended to ensure the survival of those plants that are rare or uncommon, either because they are restricted to specific uncommon habitat or because they may be in jeopardy due to human or other actions.

By BLM policy, species proposed for federal listing are to be managed with the same level of protection provided for threatened and endangered species. The policy for federal candidate species and BLM sensitive species is to ensure that no action that requires federal approval should contribute to the need to list a species as threatened or endangered.

Other management direction is based on RMP management objectives, activity level plans, and other aquatic habitat and fisheries management direction, including 50 CFR 17, the Land Use Planning Handbook, Appendix C, Part E, Fish and Wildlife.

The current RMPs have evaluated the need to protect habitat necessary for the success of species identified through these regulations and policies. New information regarding the status of the Greater Sage-grouse has elevated its status from a BLM sensitive species to a federal candidate species. Policy was issued by the Wyoming BLM in December, 2009 under Information Memoranda 2010-012 and 2010-013; additional policy was issued by the Washington Office BLM under Information Memoranda 2010-071.

The greater sage-grouse is a candidate species for listing under provisions of the ESA as determined by the USFWS and documented in a March 5, 2010 Federal Register notice declaring that listing of the Greater Sage Grouse was warranted but precluded. Greater sage-grouse are

distributed in sagebrush habitat throughout the Bighorn Basin, where habitat fragmentation and degradation has not reduced habitat to unsuitable. Greater sage-grouse leks are generally at mid elevations within sagebrush habitat. Nesting and brood-rearing habitat is sometimes associated with the lek and sometimes found at a distance from the lek in sagebrush habitat. These remaining suitable sagebrush habitat areas could be productive for greater sage-grouse; however, fragmentation and degradation might limit the distribution and abundance of greater sage-grouse. The WGFD has identified core areas, which represent these relatively productive areas, and has suggested special management for these areas. In mid July, 2010, the WY Game and Fish Department also released Version 3 of their Sage Grouse Core Area boundaries. All parcels have been screened against this version in accordance with IM 2010-13. Specific information regarding each parcel can be found in Appendix B.

There are many sources of habitat fragmentation, all of which may affect the greater sage-grouse. Industrial development, livestock and wildlife grazing, mining, gravel pit operations, oil and gas activity, land exchanges and disposal, vegetation manipulation, fuel reduction projects and other activities may cause an artificial component to a natural habitat condition. Structures such as powerlines and towers and industrial disruptive activities may cause avoidance and abandonment of habitat. Livestock grazing, fuels treatments, and weed spread infestations are factors which may cause habitat degradation depending upon severity, intensity, and design. West Nile virus, which recently has had lethal effects on greater sage-grouse in parts of Wyoming, could become an important factor in greater sage-grouse survival. There has been little research to document the presence of the virus and its effect on greater sage-grouse in the Powder River Basin.

Greater sage-grouse have been declining across the west, which has prompted several petitions to list them as threatened under the ESA, including a recent petition that led to the March 5, 2010 finding by the USFWS of warranted for listing but precluded. Population levels throughout the Planning Area declined during the mid 1990s. Since 2004, the levels have maintained or slightly increased. It is thought this resurgence was a result of well-timed precipitation events. These precipitation events promoted forage growth, which aided the survival of young. Population growth has varied throughout the Planning Area based on specific local conditions, with some areas showing little change; other areas have had a recent increase in lek count numbers. With recent improvement in spring and summer conditions in many parts of the Powder River Basin, there are some greater sage-grouse leks that have become active again after many years of non-use. Winter conditions generally are not a limiting factor in the Powder River Basin because snow depths are not as severe as in other parts of Wyoming.

3.3 Lands with Wilderness Characteristics

As part of the current RMP revision-planning effort, the Buffalo Field Office has recommended a deferral parcels with potential for wilderness characteristics.

Wilderness characteristics are resource values that include naturalness, outstanding opportunities for solitude, and outstanding opportunities for primitive and unconfined recreation. Areas evaluated for wilderness characteristics generally occur in undeveloped locations of sufficient size (approximately 5,000 acres) to be practical to manage for these characteristics. Smaller areas

are considered if they are contiguous with designated Wilderness or WSAs, or in rare circumstances, are of a manageable size in accordance with FLPMA.

The BLM Land Use Planning Handbook (H-1601-1) states that the BLM must consider the management of lands with wilderness characteristics during the land use planning process. The criteria used to identify these lands are essentially the same criteria used for determining wilderness characteristics for WSAs. However, the authority set forth in Section 603(a) of FLPMA to complete the three-part wilderness review process (inventory, study, and report to Congress) expired on October 21, 1993; therefore, FLPMA does not apply to new WSA proposals and consideration of new WSA proposals on BLM-administered public lands is no longer valid. The BLM is still required to inventory lands to determine whether they possess wilderness characteristics.

At present, the BLM manages these lands in accordance with the current RMPs; no specific management has been developed for these areas.

3.4 Socioeconomic Resources

Table 3.5 shows changes in population for each county between 1970 and 2008. Campbell was the fastest-growing county, increasing its population by two hundred eighteen percent since 1970 (a pace far exceeding the United States); the next two counties increased by sixty percent from 1970 to 2005.

Table 3.5: Population Change by County, 1970-2008

Area	Population in 1970	Population in 2008	Change 1970-2008	Average Annual Change 1970-2008
Campbell County	13,049	41,473	218%	3.1%
Johnson County	5,611	8,464	51%	1.1%
Sheridan County	17,865	28,662	60%	1.3%
Wyoming	333,795	532,668	60%	1.2%
United States	203,798,722	304,059,724	49%	1.1%

Sources: BEA 2009; U.S. Census Bureau 2009d, 2009e, 2009f

Table 3.6 below provides a summary of the sources of personal income by place of work and county in the resource area. The table highlights county-level differences in the importance of various economic sectors, as well as the contribution of nonwage income, specifically dividends, interest, and rent, to personal income. In Campbell County, mining contributes two-fifths of

total earnings, which is more than three times the contribution of any other sector. The next largest sectors are construction (12%) and government (11%). Campbell County also has a relatively low contribution from nonwage income, especially compared to Johnson and Sheridan counties. Johnson and Sheridan counties have a relatively large share of income from mining; it is the second largest sector in both counties, with government employment contributing the largest share in each county. Construction is the third largest sector in both Johnson and Sheridan counties.

In all three counties, farm income contributes a very small share of earnings; in 2007, net farm income was negative in all three counties, owing to expenses that exceeded gross income. Agricultural services, such as custom tillage, made some additional contributions, but the amount is relatively small in all three planning area counties (3% of earnings in Johnson County and 1% in Sheridan County; the exact figure is not available for Campbell County, but it is less than 0.2% because that is the total contribution from all sectors for which data are not disclosed).

Table 3.6: Average and Median Income; Average Earnings Per Job

Item-Sector	Campbell County (Wyoming)	Johnson County (Wyoming)	Sheridan County (Wyoming)	Natrona County (Wyoming)	Big Horn County (Montana)	Yellowstone County (Montana)	Wyoming	United States
Population	40,433	8,139	28,037	71,784	12,765	139,766	523,252	301,290,332
Total personal income (\$ millions)	\$1,906	\$329	\$1,421	\$3,772	\$285	\$5,328	\$24,618	\$11,634,322
Dividends, interest, and rent as a proportion of total personal income	15%	36%	39%	25%	12%	19%	29%	18%
Earnings by place of work (\$ millions) ¹	\$1,911	\$179	\$751	\$2,722	\$228	\$4,195	\$16,568	\$8,848,240
Percent of total earnings by place of work (by sector)								
Farming	-0.3%	-4%	-0.4%	0.1%	4%	0.3%	-0.01%	1%
Fishing, logging, and related	n/a	3%	1%	n/a	1%	0.2%	0.3%	0.3%

Table 3.6: Average and Median Income; Average Earnings Per Job

Item-Sector	Campbell County (Wyoming)	Johnson County (Wyoming)	Sheridan County (Wyoming)	Natrona County (Wyoming)	Big Horn County (Montana)	Yellowstone County (Montana)	Wyoming	United States
activities, including agricultural services ²								
Mining	40%	19%	11%	26%	22%	4%	19%	1%
Utilities	1%	1%	1%	n/a	n/a	1%	1%	1%
Construction	12%	13%	10%	7%	4%	9%	10%	6%
Manufacturing	3%	1%	2%	5%	0.4%	8%	4%	12%
Wholesale trade	6%	1%	3%	8%	1%	8%	4%	5%
Retail trade	4%	6%	8%	7%	3%	8%	6%	6%
Transportation and warehousing	6%	4%	7%	n/a	n/a	5%	5%	3%
Information	0.5%	1%	1%	1%	0.3%	2%	1%	4%
Finance and insurance	1%	5%	4%	3%	2%	5%	3%	8%
Real estate and rental and leasing	1%	2%	2%	3%	0.4%	2%	3%	2%
Professional and technical services	3%	4%	7%	5%	2%	n/a	5%	10%
Management of companies and enterprises	2%	n/a	0.2%	0.5%	0%	n/a	1%	2%
Administrative and waste services	2%	n/a	2%	2%	0.3%	4%	2%	4%

Table 3.6: Average and Median Income; Average Earnings Per Job

Item-Sector	Campbell County (Wyoming)	Johnson County (Wyoming)	Sheridan County (Wyoming)	Natrona County (Wyoming)	Big Horn County (Montana)	Yellowstone County (Montana)	Wyoming	United States
Educational services	n/a	n/a	0.4%	0.1%	n/a	0.5%	0.3%	1%
Health care and social assistance	3%	n/a	9%	11%	n/a	15%	7%	9%
Arts, entertainment, and recreation	0.1%	3%	1%	1%	1%	1%	1%	1%
Accommodation and food services	2%	5%	4%	2%	2%	3%	4%	3%

4 ENVIRONMENTAL EFFECTS

4.1 Air Resources

4.1.1 Air Quality

Alternative A No Action

Under the no action alternative, the monies received from those previously sold parcels where leases were not issued, would be refunded and no development would occur. Due to demand for oil and gas, it is expected that these parcels may be re-nominated in the future, consistent with appropriate land use planning decisions, and would be offered for sale with additional stipulations. There is no way to accurately predict what level of restrictions future leasing may require, but it can be assumed that a substantial portion of the development that would have been authorized under the leases currently sold would still be permitted under future leases. Nominations of parcels for lease under future land use plans and decisions would be screened for consistency with the land use plan in effect at the time, and the appropriate environmental analysis would be conducted to determine associated air quality impacts. Impacts to air quality from leases issued from any future sales would be analyzed in the appropriate environmental documents for those sales. Analysis of air quality impacts is also required at the time an application for a permit to drill is submitted.

A decision to not issue leases for any of the 101 parcels would support continued current uses of these parcels. These uses are primarily associated with grazing, with some dispersed recreation such as hunting and hiking. These uses typically entail vehicle travel for access, and would be expected to continue at current rates.

Alternative B Proposed Action

Issuing leases for the subject tracts would have no direct impacts to air quality. Any potential effects to air quality would occur if and when the leases were developed. Over the last 10 years, the leasing of Federal oil and gas mineral estate in the Buffalo Field Office has resulted in an average total of 964 wells drilled on federal leases annually. These wells would contribute a small percentage of the total emissions (including GHG's) from oil and gas activities in Wyoming.

Potential impacts of development could include increased air borne soil particles associated with the construction of new well pads, pipelines, or roads, exhaust emissions from drilling equipment, compressors, vehicles, and dehydration and separation facilities, as well as potential releases of GHG and volatile organic compounds during drilling or production activities. The amount of increased emissions cannot be quantified at this time since it is unknown how many wells might be drilled, the types of equipment needed if a well were to be completed successfully (e.g. compressor, separator, dehydrator), or what technologies may be employed by a given company for drilling any new wells. The degree of impact will also vary according to the characteristics of the geologic formations from which production occurs. Emissions of all regulated pollutants (including GHGs) and their impacts will be quantified and evaluated at the time that a specific development project is proposed.

In June 2009, the BLM Wyoming State Office Reservoir Management Group produced a draft Reasonably Foreseeable Development Scenario for Oil and Gas (RFD) document for the Buffalo Field Office Planning Area RMP revision. This document demonstrates that approximately 629 conventional wells and 13,803 Coalbed Natural Gas wells could be drilled between 2009 and 2028 on Federal minerals. (The petroleum resources specific to these leases in the Proposed Action are not known whether they are gas or oil or a combination thereof; however the RFD does indicate that they have very low or no potential for CBNG development). The absolute density of drilling depends upon the technology available (vertical, directional, or horizontal) and the geology of the hydrocarbon-bearing zone. As a result, it is unknown the specific numbers of wells that could potentially be drilled under a full field development scenario as a result of issuing the leases. However, the RFD takes these assumptions into account, and on a Field Office wide basis, is still valid. Current APD permitting trends within the field office confirm that these assumptions are still accurate as from October 1999 through September 30, 2009 the Buffalo Field Office has approved 12,827 APDs.

Subsequent development of any leases issued, would contribute a small incremental increase in overall hydrocarbon emissions, including GHGs. When compared to total national or global emissions, the amount released as a result of potential production from the proposed lease tracts would not have a measurable effect.

Coalbed natural gas development accounts for a large proportion of the APDs approved by the Buffalo Field Office since the late 1990s.

Alternative C Full Lease Issuance

Under this alternative, leases would be issued for all 101 parcels sold with the previously attached stipulations (Appendix A). However, due to the larger acreage under this Alternative potentially subject to surface disturbing activities, drilling and production, the potential for impacts are similar to, but have a higher probability of occurring in larger amounts, as under Alternative B. Emissions of all regulated pollutants (including GHGs) and their impacts will be quantified and evaluated at the time that a specific development project is proposed.

Mitigation

None

4.1.2 Greenhouse Gas Emissions

Alternative A No Action

A decision to not issue leases for 101 parcels would preclude oil and gas development that could contribute greenhouse gas emissions from these leases. However, as discussed previously under the no action alternative, this would not preclude future nomination, leasing, and development consistent with land use planning decisions at that time. Based on demand for oil and gas, it is expected that these parcels would be nominated in the future, consistent with appropriate land use planning decisions, and would be offered for sale with appropriate stipulations. There is no way to accurately predict what level of restrictions future leasing may require, but it can be assumed that a substantial portion of the development that would have been authorized under the

leases currently sold would still be permitted under future leases. This would result in a postponement of development, and the possibility of the development occurring with increased restriction on greenhouse gas emissions. The levels and types of restrictions would be determined at the time of lease, and submittal of development activities for approval, but are expected to allow for at least moderate development of areas open to leasing. Therefore, the no-action alternative would likely delay, and not prevent, greenhouse gas emissions. The no-action alternative may also result in reduced levels of emissions associated with future expanded restrictions.

See Section 4.6 for a discussion of the impacts of these potential greenhouse gas emissions on global climate change.

Alternative B Proposed Action

The issuance of 75 leases and a deferral of issuance of 26 leases in itself would not result in any direct greenhouse gas emissions. However, in regard to future development, the assessment of GHG emissions and climate change is in its formative phase. While it is not possible to accurately quantify potential GHG emissions in the affected areas as a result of making the proposed tracts available for leasing, some general assumptions however can be made: issuing the proposed tracts may contribute to drilling new wells.

The Center for Climate Strategies (CCS) prepared the Wyoming Greenhouse Gas Inventory and Reference Case Projection 1990-2020 (Inventory) for the Wyoming Department of Environmental Quality (WYDEQ) through an effort of the Western Regional Air Partnership (WRAP). This inventory report presents a preliminary draft greenhouse gas (GHG) emissions inventory and forecast from 1990 to 2020 for Wyoming. This report provides an initial comprehensive understanding of Wyoming's current and possible future GHG emissions. The information presented provides the State with a starting point for revising the initial estimates as improvements to data sources and assumptions are identified.

The inventory report discloses that activities in Wyoming accounted for approximately 56 million metric tons (MMt) of *gross* carbon dioxide equivalent (CO₂e) emissions in 2005, an amount equal to 0.8% of total US gross GHG emissions. These emission estimates focus on activities in Wyoming and are *consumption-based*; they exclude emissions associated with electricity that is exported from the State. Wyoming's gross GHG emissions increased 25% from 1990 to 2005, while national emissions rose by only 16% from 1990 to 2004. Annual sequestration (removal) of GHG emissions due to forestry and other land-uses in Wyoming are estimated at 36 MMtCO₂e in 2005. Wyoming's per capita emission rate is more than four times greater than the national average of 25 MtCO₂e/yr. This large difference between national and State per capita emissions occurs in most of the sectors – Wyoming's emission per capita significantly exceed national emissions per capita for the following sectors: electricity, industrial, fossil fuel production, transportation, industrial process and agriculture. The reasons for the higher per capita intensity in Wyoming are varied but include the State's strong fossil fuel production industry and other industries with high fossil fuel consumption intensity, large agriculture industry, large distances, and low population base. Between 1990 and 2005, per

capita emissions in Wyoming have increased, mostly due to increased activity in the fossil fuel industry, while national per capita emissions have changed relatively little.

Wyoming's gross GHG emissions are expected to continue to grow to 69 MMtCO₂e by 2020, 56% above 1990 levels. As shown in Figure ES-3 of the Inventory, demand for electricity is projected to be the largest contributor to future emissions growth, followed by emissions associated with transportation. Although GHG emissions from fossil fuel production had the greatest increase by sector in the period 1990 to 2005, the growth from this sector is projected to decline due to assumption of decreased carbon dioxide emissions from venting at processing plants.

As of 2008, the Inventory indicates that there over 33,000 active oil and gas wells in the State.

There are approximately 13,093 active Federal oil and gas wells in the Buffalo Field Office (84% of these are coalbed methane wells, 14% are oil wells and 2% are gas wells). Wells in this Field Office account for approximately 39.68 percent of the total Federal wells in Wyoming. Therefore, GHG emissions from all wells within the field office are estimated to emit approximately 5.68 metric tons annually (mt) ($19.6 \text{ mt} \times 0.3968 = 7.78 \text{ mt}$) assuming steady production and emission venting.

Based on this emission factor, each potential well that may be drilled on these parcels, if issued, could emit approximately 0.00059 mt of CO₂e. It is unknown what the drilling density may be for these parcels, if they were to be developed; therefore, it is impossible to predict what level of emissions could occur from development at this stage under the proposed action.

Of the parcels that have been sold but not issued, 2 parcel is located within an area defined as having High Potential for Oil and Gas development in the 2009 Draft Reasonably Foreseeable Development (RFD) Scenario Document produced by the WY State Office Reservoir management Group for the Buffalo Field Office Area RMP revision process. Additionally, 8 parcels are located in the Moderate Potential area for conventional oil and gas, 17 parcels are located in the Low Potential area, 68 parcels are located within the Very Low Potential area and 6 parcels are located in the Negligible Potential area. The potential number of wells to be drilled per township in these areas is shown below in Figures 4a and 4b taken from the 2009 draft RFD Scenario document. Per the draft RFD, all of the sold parcels have very low to no CBNG potential.

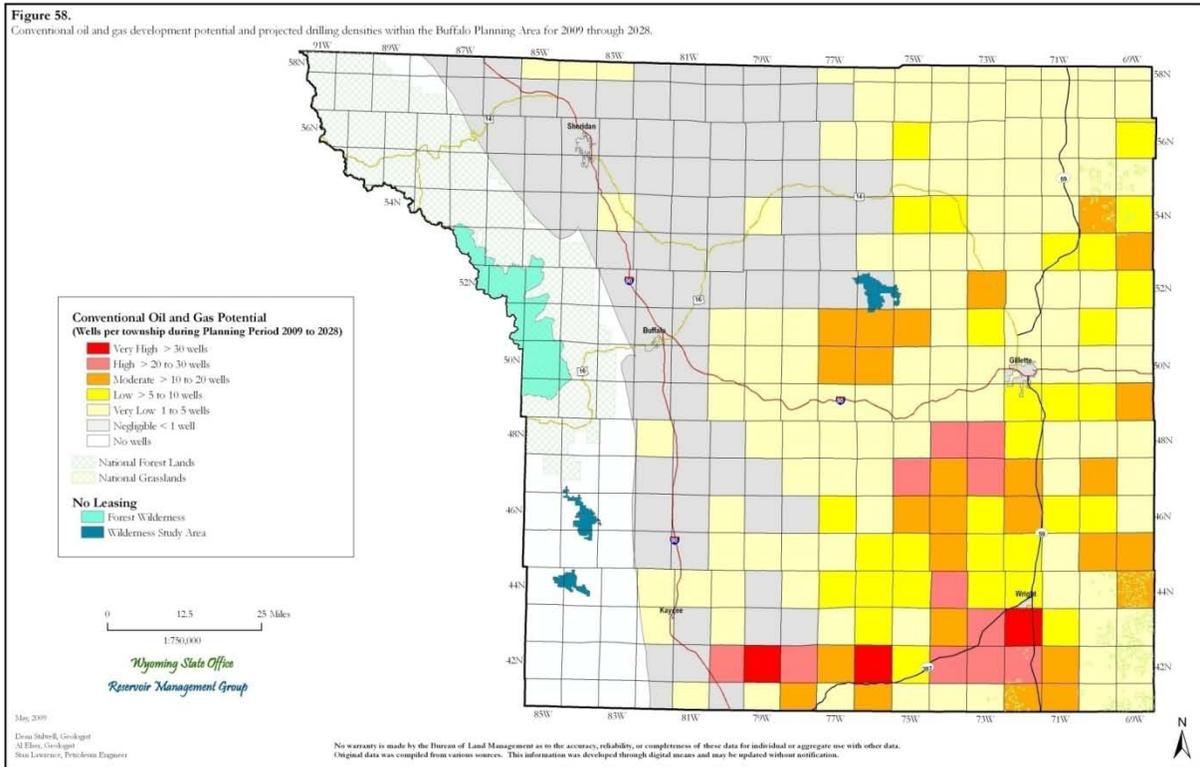


Figure 4a: Conventional Oil and Gas Potential in the Buffalo Field Office Planning Area between 2009 and 2028 (June 2009, Draft BFO RFD)

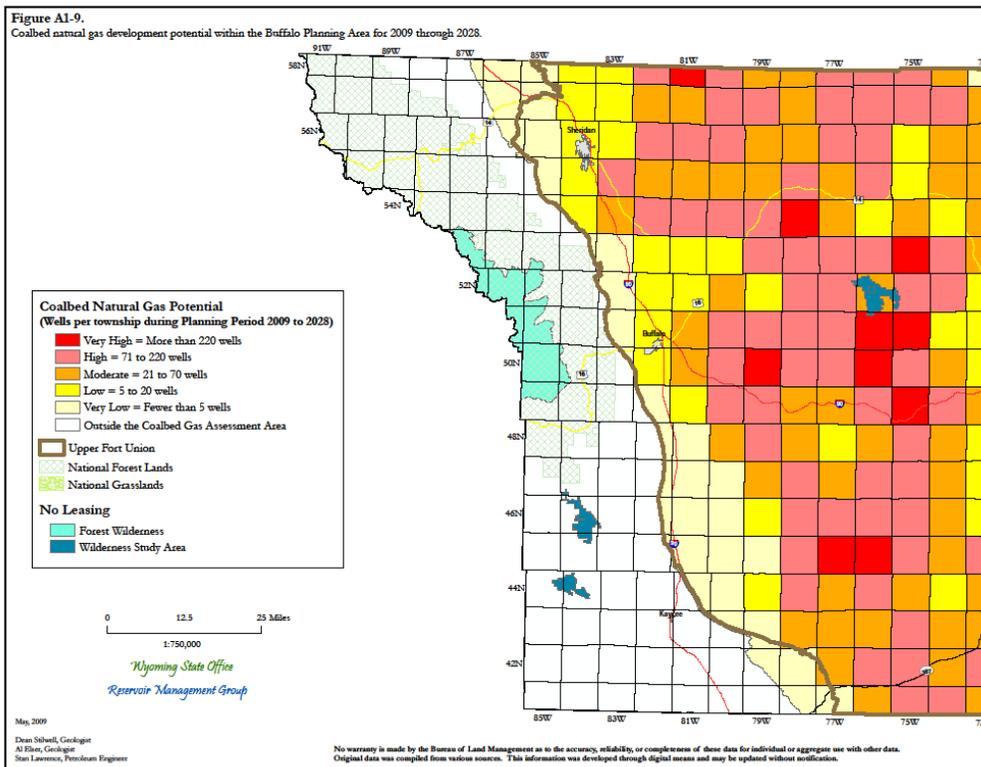


Figure 4b: Coalbed Natural Gas Potential in the Buffalo Field Office Planning Area between 2010 and 2029 (June 2009, Draft BFO RFD)

See Section 4.6 for a discussion of the impacts of these potential greenhouse gas emissions on global climate change. Emissions of all regulated pollutants (including GHGs) and their impacts will be quantified and evaluated at the time that a specific development project is proposed.

Alternative C Full Lease Issuance

Under this alternative, leases would be issued for all 101 parcels with the appropriate stipulations as listed in Appendix A. However, due to the larger acreage under this Alternative potentially subject to surface disturbing activities, drilling and production, the potential for greenhouse gas emissions are similar to, but have a higher probability of occurring in larger amounts, as under Alternative B.

See Section 4.6 for a discussion of the impacts of these potential greenhouse gas emissions on global climate change. Emissions of all regulated pollutants (including GHGs) and their impacts will be quantified and evaluated at the time that a specific development project is proposed.

Mitigation

The BLM holds regulatory jurisdiction over portions of natural gas and petroleum systems, identified in the EPA Inventory of US Greenhouse Gas Emissions and Sinks document. Exercise of this regulatory jurisdiction has led to development of “Best Management Practices (BMPs)” designed to reduce emissions from field production and operations. Analysis and approval of future development on the lease parcels would include applicable BMPs as conditions of approval (COAs) in order to reduce or mitigate GHG emissions. Additional measures developed at the project development stage would be incorporated as COAs in the approved APD or with a programmatic EIS, which are binding on the operator.

Such mitigation measures may include, but are not limited to:

- Flare hydrocarbon and gases at high temperatures in order to reduce emissions of incomplete combustion through the use of multi-chamber combustors;
- “Green” (flareless) completions,
- Water dirt roads during periods of high use in order to reduce fugitive dust emissions;
- Require that vapor recovery systems be maintained and functional in areas where petroleum liquids are stored;
- Installation of liquids gathering facilities or central production facilities to reduce the total number of sources and minimize truck traffic,
- Use of natural gas fired or electric drill rig engines,
- The use of selective catalytic reducers on diesel-fired drilling engines; and,
- Re-vegetate areas of the pad not required for production facilities to reduce the amount of dust from the pads.

The EPA Inventory data show that adoption by industry of the Best Management Practices proposed by the EPA's Natural Gas Energy Star program has reduced emissions from oil and gas exploration and development (Inventory of US Greenhouse Gas Emissions and Sinks: 1990-

2006). The Buffalo Field Office will work with industry to facilitate the use of the relevant BMPs for operations proposed on federal mineral leases where such mitigation is consistent with agency policy.

4.2 Wildlife

4.2.1 Special Status Species

Alternative A No Action

Under the No-Action alternative, oil and gas development of the 101 parcels would not occur. Therefore, no impacts would result from BLM actions. Additionally, activities in Sage Grouse Core Areas would be limited to those associated with current land uses, primarily recreation and agriculture. Sage Grouse Core Areas are the core areas identified by the state of Wyoming, adjusted to include additional habitat identified in consultation with the local WY Game and Fish office. As discussed previously, many of these parcels may be eligible for nomination, lease, and development in the future, and could be leased subject to appropriate levels of restriction identified in the RMP at the time.

Alternative B Proposed Action

Under this alternative, leases for 75 parcels would be issued and a deferral of issuance of 26 lease parcels would occur pending revision of certain wildlife lease stipulations and revision of the Powder River Basin RMP. Approximately 4,587.52 acres of development from 15 parcels would be curtailed until the Buffalo RMP was finished. All other impacts are the same as those described in the Buffalo RMP as they relate to Sage Grouse.

Alternative C Full Lease Issuance

Under this alternative, all leases would be issued with the stipulations as detailed in Appendix A. However, due to the larger acreage under this Alternative potentially subject to surface disturbing activities, the potential for impacts are similar to, but have a higher probability of occurring and at a greater intensity, as under Alternative B. Without conformance with the WY Sage Grouse Core Area Conservation Strategy, it is likely that the Sage Grouse would be listed as a T&E species; such a listing would violate the BLM Sensitive Species policy as authorized under BLM Manual 6840.

Mitigation

Modification of the stipulations for 15 parcels is recommended to ensure continued population and habitat objectives for the Greater Sage Grouse. Additional mitigation and/or Conditions of Approval could be identified at the development stage to further minimize impacts associated with oil and gas development.

4.3 Lands with Wilderness Characteristics

Alternative A No Action

An inventory of areas identified as containing wilderness characteristics was performed in the Buffalo Field Office in 2009 in support of the Buffalo RMP revision process. As a result, all 101 parcels were screened for wilderness characteristics. Of those, approximately 489.00 acres within 3 parcels out of the 101 parcels offered for lease contain areas that have been identified as potentially containing wilderness characteristics. In the No-Action Alternative, these areas will

not be developed under these leases. Management of these areas with wilderness characteristics would be preserved for analysis and decision in an appropriate planning document. Future leasing decisions would be consistent with that document.

Alternative B Proposed Action

Under this alternative, 75 leases would be issued and a deferral of issuance of 26 lease parcels. Three of the 26 parcels proposed for deferral of issuance, containing approximately 489.00 acres of lands potentially containing wilderness characteristics, would be curtailed until management direction could be instituted in the RMP Record of Decision. Once management decisions are made either 1) the lease stipulation would be revised and the High Bidder would be given a chance to accept or reject the lease with revised stipulations; or 2) the BLM would not issue leases for those parcels and return all monies received a result of the sale. If the decision was made not to issue the leases, those parcels would not be subject to development but could potentially be made available at another time.

Alternative C Full Lease Issuance

Under this alternative, all 101 leases would be issued with the stipulations as detailed in Appendix A. However, due to the larger acreage under this Alternative potentially subject to surface disturbing activities, the potential for impacts are similar to, but have a higher probability of occurring, as under Alternative B. Regardless, issuance of all leases, including those potentially containing wilderness characteristics could cause adverse environmental impacts and preclude alternative formulation under the Powder River Basin RMP revision which could potentially violate NEPA policy.

Mitigation

None

4.4 Socioeconomics

Alternative A No Action

Under this alternative, no leases would be issued and no development under those leases would occur. As primarily rural communities that rely heavily on energy development revenue and agricultural uses, the communities in the leasing areas are likely to be negatively impacted by loss of potential revenue from subsequent development, of these parcels. However, the pace of development has historically been greater than that in many areas of the state, with approximately 1283 Applications for Permits to Drill (APD) approved per year. The projection under the latest Reasonable Foreseeable Development scenario is for approximately 720 wells per year. Because there is demand for oil and gas, it is expected that if the leases are not issued the parcels will be re-nominated and leased in the future under more stringent stipulations. This would still allow for development of leases, and generation of revenue from Federally-managed minerals. Therefore, it is an assumption that the No Action Alternative (no lease option) may result in a slight reduction in domestic production of oil and gas. This would likely result in reduced Federal and State royalty income, and the potential for Federal land to be drained by wells on adjacent private or state land.

Under the No-Action alternative, the BLM will be expected to refund just over \$1.2M in bonus bids, filing fees, and rental fees. By law, the BLM provides approximately 50% of that revenue to the State of Wyoming. This represents a loss of considerable revenue to the State of Wyoming and to the Federal Government. Appendix B lists each parcel and the monies that were received for each parcel sold during the period of June 2008 through May 2010.

Consumption of oil and gas developed from the proposed lease parcels is expected to produce GHGs. Consumption is driven by a variety of complex interacting factors including energy costs, energy efficiency, availability of other energy sources, economics, demography, and weather or climate.

Alternative B Proposed Action

Under this alternative, 75 leases would be issued. This would result in revenue of \$590,717.00 for the Federal and State government. Development of the issued leases would proceed consistent with the Reasonable Foreseeable Development report. Specific economic impacts would be identified in the NEPA document supporting the Application for Permit to Drill, when a more accurate analysis is possible based on the speculative nature of leasing in relation to development. Eight of the 26 parcels proposed for deferral of issuance are within the Fort Union coal, for a total of 4,077.5 acres.

Alternative C Full Lease Issuance

Under this alternative, all leases would be issued. This would provide the most opportunity for development of oil and gas, and the most revenue for the Federal government and the State (\$1.2M). Under this alternative, no money would be refunded.

Mitigation

None.

4.5 Cumulative Impacts

Currently there are approximately 13,093 Federal active wells in the Buffalo Field Office, which are predominately (84%) producing coalbed methane production wells.

Analysis of cumulative impacts for reasonably foreseeable development (RFD) of oil and gas wells on public lands in the Buffalo Field Office is presented in the 1995 Buffalo Resource Management Plan (RMP) and in the 2003 Powder River Basin Oil and Gas Project RMP Amendment. Potential development of all available federal minerals in the field office, including those in the proposed lease parcels, was included as part of the analysis.

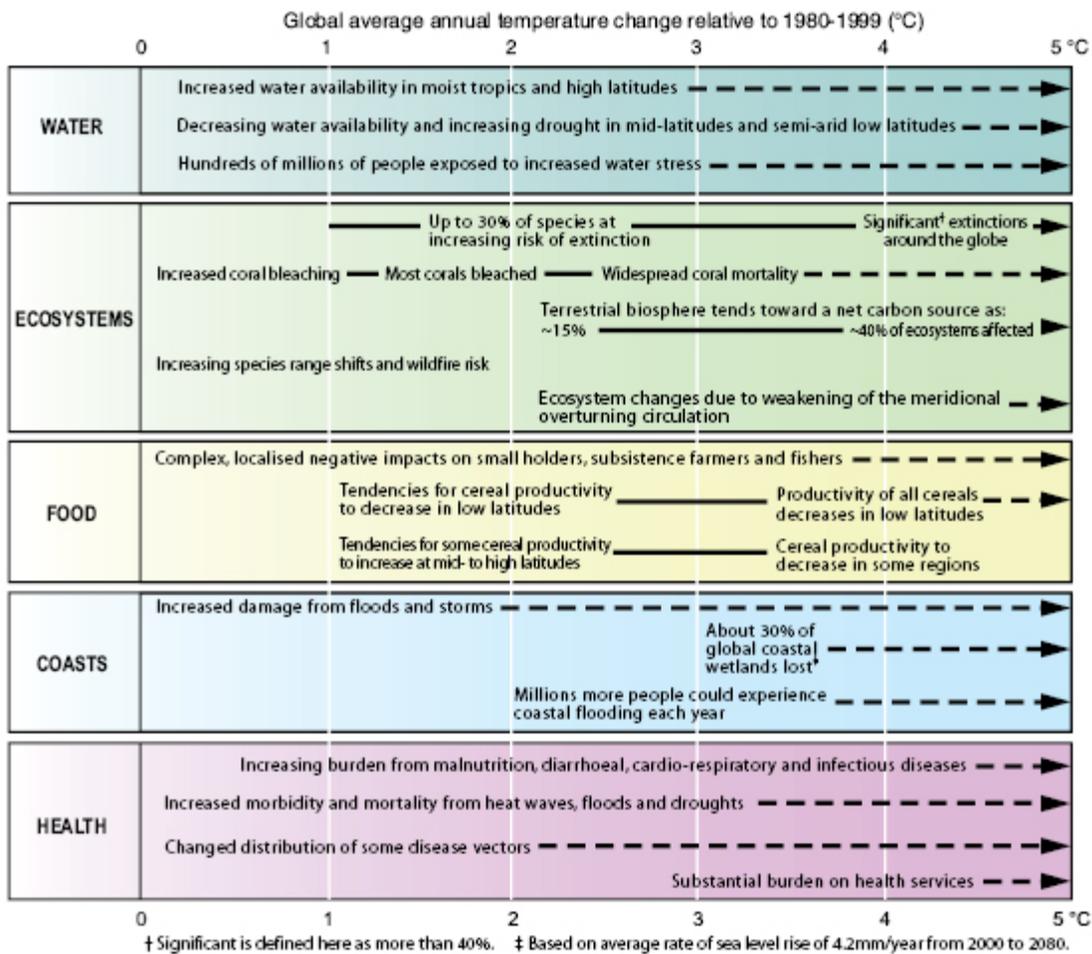
As described in the analysis of environmental consequences, the proposed action and/or the alternative may contribute to the effects of climate change to some extent through GHG emissions. However, it is not currently possible to associate any of these particular actions with the creation of any specific climate-related environmental effects. The lack of scientific tools designed to predict climate change at regional or local scales limits the ability to quantify potential future impacts.

The assessment of greenhouse gas (GHG) emissions and climate change is still in its formative phase; therefore, it is not yet possible to know with confidence the net impact on climate. However, the Intergovernmental Panel on Climate Change (IPCC 2007) recently concluded that “warming of the climate system is unequivocal” and “most of the observed increase in globally average temperatures since the mid-20th century is very likely due to the observed increase in anthropogenic [man-made] greenhouse gas concentrations.” As the temperatures of the land and sea change, environmental factors such as weather patterns, sea levels, precipitation rates, the timing of the seasons, desert distribution, forest cover, and ocean salinity will also change. These changes influence the world’s climate systems and will have different impacts to different areas. Some agricultural regions may become more arid while others become wetter; some mountainous areas will experience greater summer precipitation, yet experience disappearing snowpack.

The average number of oil and gas wells drilled annually in the Field Office and probable GHG emission levels, when compared to the total GHG emission estimates from the total number of Federal oil and gas wells in the State, represent an incremental contribution to the total regional and global GHG emission levels. This incremental contribution to global GHG gases cannot be translated into incremental effects on climate change globally or in the area of these site-specific actions. As oil and gas and natural gas production technology continues to improve in the future, one assumption is that it may be feasible to further reduce GHG emissions.

Based on research compiled for the International Panel on Climate Change Fourth Assessment Report, 2007, potential effects of climate change on resources in the affected environment are likely to be varied. Figure 4.6.1, taken from the Fourth Assessment Report indicates varying responses of the natural world to increasing temperatures as a result of increasing global temperatures.

Figure 4.6.1: Examples of impacts associated with global average temperature change (Impacts will vary by extent of adaptation, rate of temperature change and socio-economic pathway)



Within North America, the report specifically forecasts that: Warming in western mountains is projected to cause decreased snowpack, more winter flooding and reduced summer flows, exacerbating competition for over-allocated water resources; in the early decades of the century, moderate climate change is projected to increase aggregate yields of rain-fed agriculture by 5 to 20%, but with important variability among regions; major challenges are projected for crops that are near the warm end of their suitable range or which depend on highly utilized water resources; cities that currently experience heat waves are expected to be further challenged by an increased number, intensity and duration of heat waves during the course of the century, with potential for adverse health impacts and coastal communities and habitats will be increasingly stressed by climate change impacts interacting with development and pollution. Specific modeling and/or assessments of the potential effects for the Buffalo Field Office and for the State of WY currently do not exist.

In 2001, the Intergovernmental Panel on Climate Change (IPCC) pointed out that by the year 2100, global average surface temperatures would increase 2.5 to 10.4°F above 1990 levels (IPCC 2007). The National Academy of Sciences (2006) has confirmed these findings, but also indicated that there are uncertainties regarding how climate change may affect different regions.

Computer model forecasts indicate that increases in temperature will not be evenly or equally distributed, but are likely to be accentuated at higher latitudes. Warming during the winter months is expected to be greater than during the summer, and increases in daily minimum temperatures is more likely than increases in daily maximum temperatures.

Regarding the linkage between climate change related warming and associated impacts, an assessment of the IPCC states that difficulties remain in attributing observed temperature changes at smaller than continental scales. Therefore, it is currently beyond the scope of existing science to predict climate change on regional or local scales resulting from specific sources of GHG emissions. Emissions of all regulated pollutants (including GHGs) and their impacts will be quantified and evaluated at the time that a specific development project is proposed.

IPCC also discloses that significant uncertainties remain with respect to the estimates of the current level of emissions and projections of future production of fossil fuels as the oil and gas industry is difficult to forecast with the mix of drivers: economics, resource supply, demand, and regulatory procedures. The assumptions used for the projections, based on recent trends or State production trends in the near-term, and AEO2006 growth rates through 2020, do not include any significant changes in energy prices, relative to today's prices. Large price swings, resource limitations, or changes in regulations could significantly change future production and the associated GHG emissions. Other uncertainties include the volume of GHGs vented from gas processing facilities in the future, any commercial oil shale or coal-to-liquids production, and potential emissions-reducing improvements in oil and gas production, processing, and pipeline technologies.

Based on a 0.00059 mt/well emission factor (See Section 4.2), an RFD of 720 wells drilled and produced per year could result in approximately 0.4248 mt of CO₂e, potentially being added per year to the current levels associated with oil and gas development in the Buffalo Field Office. It is unknown what the drilling density may be for these parcels, if they were to be developed; therefore, it is impossible to predict what level of emissions could occur from development at this stage under the proposed action. Additionally, this assumes that each well produces at the same volumes, with the same emission factor. Coalbed methane wells, due to a higher methane content, may emit greenhouse gas emissions at a higher or lower level than convention oil and gas wells.

There are currently no proposals for renewable energy projects in the Buffalo Field Office that could potentially contribute additional GHG emissions.

5 DESCRIPTION OF MITIGATING MEASURES AND RESIDUAL IMPACTS

The issuance of those leases identified under the proposed action will be mitigated by attaching appropriate conditions of approval to any subsequent requests for lease development either on a case by case basis or upon receipt of a multi-well project proposal. The Buffalo Field Office, Surface Use and Occupancy Requirements, Conditions of Approval, and the Buffalo Field

Office's Special Leasing Stipulations, which are in place at the Wyoming State Office, will provide adequate mitigation for issuance of all lease parcels under the Proposed Action.

Direct, indirect, cumulative and residual impacts of leasing and lease development are generally described in the Powder River Resource Management Plan 2003. An environmental analysis will be prepared on a case-by-case basis upon receipt of future subsequent actions.

6 CONSULTATION/COORDINATION

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Jennifer Spegon, Natural Resource Specialist
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<http://dels.nas.edu/basc/Climate-HIGH.pdf>.)

U.S. Department of the Interior, Bureau of Land Management. 2003. Powder River Approved Resource Management and Plan Record of Decision. Buffalo, Wyoming.

7.1 Authorities

Code of Federal Regulations (CFR) 3100

40 CFR All Parts and Sections inclusive Protection of Environment, Revised as of July 1, 2001.

43 CFR, All Parts and Sections inclusive - Public Lands: Interior. Revised as of October 1, 2000.

U.S. Department of the Interior, Bureau of Land Management and Office of the Solicitor (editors). 2001. The Federal Land Policy and Management Act, as amended. Public Law 94-579.

8 APPENDIX A

Lease Parcels

June 2008 to May 2010 Parcel Lists
Buffalo Field Office

8.1 June 2008 Final Parcel List

WY-0806-013 80.000 Acres
T.0560N, R.0690W, 06th PM, WY
Sec. 010 E2SW;
Campbell County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Special Lease Stipulation

8.2 August 2008 Final Parcel List

WY-0808-013 42.090 Acres
T.0520N, R.0690W, 06th PM, WY
Sec. 031 LOTS 11;
Campbell County
Buffalo FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Special Lease Stipulation
TLS (1) Mar 15 to Jul 15; (2) as mapped on
the Buffalo Field Office GIS database; (3)
protecting nesting Greater sage-grouse.

WY-0808-014 40.000 Acres
T.0562N, R.0690W, 06th PM, WY
Sec. 031 NESW;
Campbell County
Buffalo FO
Formerly Lease No.
Stipulations:

Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Special Lease Stipulation

WY-0808-018 162.470 Acres
T.0550N, R.0700W, 06th PM, WY
Sec. 034 LOTS 9,10,15,16;

Campbell County
Buffalo FO
Formerly Lease No.

Stipulations:

Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 15 to Jul 15; (2) as mapped on
the Buffalo Field Office GIS database; (3)
protecting nesting Greater sage-grouse.

WY-0808-026 751.540 Acres
T.0540N, R.0710W, 06th PM, WY
Sec. 004 LOTS 5-12;
005 LOTS 5-9;
006 LOTS 8-13;

Campbell County
Buffalo FO
Formerly Lease No.

Stipulations:

Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3

Special Lease Stipulation

WY-0808-027 702.260 Acres
T.0540N, R.0710W, 06th PM, WY
Sec. 005 LOTS 10-17;
008 LOTS 1-8;
019 LOTS 5,7;

Campbell County
Buffalo FO

Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Special Lease Stipulation

WY-0808-028 161.710 Acres
T.0540N, R.0710W, 06th PM, WY
Sec. 008 LOTS 9,10,15,16;
Campbell County
Buffalo FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Special Lease Stipulation

WY-0808-029 692.600 Acres
T.0540N, R.0710W, 06th PM, WY
Sec. 010 LOTS 1-8;
011 LOTS 1-9;
Campbell County
Buffalo FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Special Lease Stipulation

WY-0808-030 641.180 Acres
T.0540N, R.0710W, 06th PM, WY
Sec. 014 LOTS 3-6,10,11,13,14;
015 LOTS 3-6,11-14;
Campbell County
Buffalo FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2

Lease Notice No. 3
Special Lease Stipulation

WY-0808-031 79.420 Acres
T.0540N, R.0710W, 06th PM, WY
Sec. 021 LOTS 8,15;

Campbell County
Buffalo FO
Formerly Lease No.

Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3

WY-0808-032 477.800 Acres
T.0540N, R.0710W, 06th PM, WY
Sec. 022 LOTS 2,4,5,7,9,11,14,16;
023 LOTS 2,4,5,7;

Campbell County
Buffalo FO
Formerly Lease No.

Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Special Lease Stipulation

WY-0808-033 159.840 Acres
T.0540N, R.0710W, 06th PM, WY
Sec. 027 LOTS 8,10,13,15;

Campbell County
Buffalo FO
Formerly Lease No.

Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Special Lease Stipulation

WY-0808-034 234.470 Acres
T.0540N, R.0710W, 06th PM, WY
Sec. 028 LOTS 2,7,9,11,14,16;
Campbell County
Buffalo FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Special Lease Stipulation

WY-0808-035 81.320 Acres
T.0540N, R.0710W, 06th PM, WY
Sec. 034 LOTS 9,15;
Campbell County
Buffalo FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Special Lease Stipulation
TLS (1) Feb 1 to Jul 31; (2) as mapped on
the Buffalo Field Office GIS database; (3)
protecting nesting Raptors.

WY-0808-069 845.140 Acres
T.0410N, R.0770W, 06th PM, WY
Sec. 017 SENE,NESE;
018 LOTS 2-4;
018 SENW,E2SW,W2SE;
019 LOTS 4;
019 E2E2,E2W2,SWSE;
021 SENW;
Johnson County
Buffalo FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 15 to Jul 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

WY-0808-075 841.120 Acres
T.0410N, R.0800W, 06th PM, WY
Sec. 019 LOTS 1-4;
019 E2;
020 W2;

Johnson County

Buffalo FO

Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Feb 1 to Jul 31; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Raptors.

WY-0808-076 843.120 Acres
T.0410N, R.0800W, 06th PM, WY
Sec. 029 W2;
030 LOTS 1-4;
030 E2;

Johnson and Natrona Counties

Buffalo FO

Casper FO

Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Feb 1 to Jul 31; (2) as mapped on the Buffalo Field Office GIS database and the Casper Field Office GIS database; (3) protecting nesting Raptors.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats

determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Casper Field Office GIS database; (3) protecting *Cynomys ludovicianus* (Black-tailed prairie dog).

WY-0808-079 520.000 Acres
T.0410N, R.0810W, 06th PM, WY
Sec. 024 E2NE,N2SE,SESE;
025 E2;
Johnson and Natrona Counties
Buffalo FO
Casper FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Special Lease Stipulation

8.3 October 2008 Final Parcel List

WY-0810-021 241.900 Acres

T.0500N, R.0700W, 06th PM, WY

Sec. 007 LOTS 7-12;

Campbell County

Buffalo FO

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 15 to Jul 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) Surface occupancy or use will be restricted or prohibited unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting Class I and/or Class II Visual Resource Management Areas.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of

the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0810-022 80.170 Acres

T.0520N, R.0700W, 06th PM, WY

Sec. 006 LOTS 16,23;

Campbell County

Buffalo FO

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) entire lease; (3) protecting Species listed on the Fish and Wildlife Service County list.

WY-0810-023 42.840 Acres
T.0520N, R.0700W, 06th PM, WY
Sec. 031 LOTS 20;
Campbell County
Buffalo FO

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) entire lease; (3) protecting Species listed on the Fish and Wildlife Service County list.

WY-0810-024 79.590 Acres
T.0530N, R.0700W, 06th PM, WY
Sec. 009 LOTS 1,2;
Campbell County

Buffalo FO

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 15 to Jul 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0810-025 291.760 Acres

T.0530N, R.0700W, 06th PM, WY

Sec. 022 LOTS 2-8;

Campbell County

Buffalo FO

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 15 to Jul 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0810-032 240.310 Acres

T.0500N, R.0710W, 06th PM, WY

Sec. 001 LOTS 13,20;

012 LOTS 1,6,7;

012 SENE;

Campbell County

Buffalo FO

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 15 to Jul 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0810-033 78.450 Acres

T.0510N, R.0710W, 06th PM, WY

Sec. 009 LOTS 1,2;

Campbell County

Buffalo FO

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

CSU (1) The lease area may now or hereafter

contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) entire lease; (3) protecting Species listed on the Fish and Wildlife Service County list.

WY-0810-034 81.010 Acres

T.0520N, R.0710W, 06th PM, WY

Sec. 014 LOTS 1,2;

Campbell County

Buffalo FO

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid

BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) entire lease; (3) protecting Species listed on the Fish and Wildlife Service County list.

WY-0810-040 78.460 Acres

T.0550N, R.0720W, 06th PM, WY

Sec. 025 LOTS 7,8;

Campbell County

Buffalo FO

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Feb 1 to Jul 31; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Raptors.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or

disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) entire lease; (3) protecting Species listed on the Fish and Wildlife Service County list.

WY-0810-053 2492.900 Acres

T.0420N, R.0800W, 06th PM, WY

Sec. 019 LOTS 1-4;

019 E2;

020 ALL;

029 ALL;

030 LOTS 1-3;

030 NE,N2SE,SESE;

031 NENE;

032 N2N2,E2SW;

Johnson County

Buffalo FO

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Feb 1 to Jul 31; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Raptors.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its

conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Cynomys ludovicianus* (Black-tailed prairie dog).

WY-0810-054 1640.000 Acres

T.0430N, R.0810W, 06th PM, WY

Sec. 017 SWNW,S2;

020 ALL;

021 ALL;

Johnson County

Buffalo FO

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their

habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) entire lease; (3) protecting Species listed on the Fish and Wildlife Service County list.

8.4 December 2008 Final Parcel List

WY-0812-028 40.690 Acres

T.0470N, R.0690W, 06th PM, WY

Sec. 020 LOTS 6;

Campbell County

Buffalo FO

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 15 to Jul 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) Surface occupancy or use within 1/4 mile of a Greater sage-grouse strutting/dancing ground will be restricted or prohibited unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting Greater sage-grouse breeding habitat.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 *et seq.*, including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0812-029 118.690 Acres
T.0510N, R.0690W, 06th PM, WY
Sec. 006 LOTS 8-10;

Campbell County

Buffalo FO

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 15 to Jul 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) Surface occupancy or use within 1/4 mile of a Greater sage-grouse

strutting/dancing ground will be restricted or prohibited unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting Greater sage-grouse breeding habitat.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 *et seq.*, including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0812-033 159.960 Acres
T.0530N, R.0700W, 06th PM, WY
Sec. 017 LOTS 2,3,8,9;
Campbell County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 15 to Jul 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) Surface occupancy or use within 1/4 mile of a Greater sage-grouse strutting/dancing ground will be restricted or prohibited unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting Greater sage-grouse breeding habitat.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 *et seq.*, including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0812-034 80.800 Acres
T.0550N, R.0700W, 06th PM, WY
Sec. 034 LOTS 1,2;

Campbell County

Buffalo FO

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 15 to Jul 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0812-035 2231.620 Acres
T.0570N, R.0700W, 06th PM, WY
Sec. 003 LOTS 5-8;
003 S2N2,W2SW,SE;
004 LOTS 7,8;
004 S2NW,S2;
009 ALL;
010 N2,SW,W2SE;

Campbell County

Buffalo FO

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 15 to Jul 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

TLS (1) Feb 1 to Jul 31; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Raptors.

CSU (1) Surface occupancy or use within 1/4 mile of a Greater sage-grouse strutting/dancing ground will be restricted or prohibited unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting Greater sage-grouse breeding habitat.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the

destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 *et seq.*, including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0812-043 1048.200 Acres
T.0540N, R.0710W, 06th PM, WY
Sec. 003 LOTS 16,17;
 004 LOTS 13-20;
 009 LOTS 1-16;

Campbell County

Buffalo FO

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing

activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) entire lease; (3) protecting Species listed under the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq.

WY-0812-044 78.970 Acres
T.0550N, R.0710W, 06th PM, WY
Sec. 009 LOTS 4,5;

Campbell County

Buffalo FO

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 15 to Jul 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of

the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

8.5 February 2009 Final Parcel List

WY-0902-045 41.220 Acres

T.0470N, R.0690W, 06th PM, WY

Sec. 029 LOTS 8;

Campbell County

Buffalo FO

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 15 to Jul 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its

obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0902-046 162.090 Acres
T.0550N, R.0700W, 06th PM, WY
Sec. 035 LOTS 9,10,15,16;

Campbell County

Buffalo FO

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 15 to Jul 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of

the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0902-048 79.300 Acres
T.0530N, R.0710W, 06th PM, WY
Sec. 010 LOTS 11,12;

Campbell County

Buffalo FO

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) entire lease; (3) protecting Species listed under the Endangered Species

Act as amended, 16 U.S.C. § 1531 et seq.

WY-0902-049 80.770 Acres
T.0540N, R.0710W, 06th PM, WY
Sec. 019 LOTS 8,15;

Campbell County

Buffalo FO

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) entire lease; (3) protecting Species listed under the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq.

WY-0902-050 81.640 Acres
T.0540N, R.0710W, 06th PM, WY
Sec. 035 LOTS 9,15;

Campbell County

Buffalo FO

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) entire lease; (3) protecting Species listed under the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq.

WY-0902-051 40.000 Acres

T.0560N, R.0710W, 06th PM, WY

Sec. 005 LOTS 9;

Campbell County

Buffalo FO

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 1 to Jun 30; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Sharp-tailed grouse.

TLS (1) Mar 15 to Jul 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) Surface occupancy or use within 1/4 mile of a Sharp-tailed grouse strutting/dancing ground will be restricted or prohibited unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting Sharp-tailed grouse breeding habitat.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0902-052 1359.910 Acres
T.0570N, R.0710W, 06th PM, WY
Sec. 028 E2;
 029 SE;
 031 LOTS 7,8;
 031 E2SW;
 032 W2NE,NW;
 033 NE,S2;

Campbell County

Buffalo FO

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 15 to Jul 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

TLS (1) Feb 1 to Jul 31; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Raptors.

TLS (1) Mar 1 to Jun 30; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Sharp-tailed grouse.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or

critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0902-054 440.000 Acres
T.0570N, R.0720W, 06th PM, WY
Sec. 020 NENW,S2NW,S2;

Campbell County

Buffalo FO

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 15 to Jul 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of

the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0902-064 560.000 Acres
T.0560N, R.0850W, 06th PM, WY
Sec. 014 N2,SW,N2SE;

Sheridan County

Buffalo FO

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 1 to Jun 30; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Sharp-tailed grouse.

TLS (1) Mar 15 to Jul 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its

obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

8.6 April 2009 Final Parcel List

WY-0904-022 82.270 Acres

T.0470N, R.0690W, 06th PM, WY

Sec. 020 LOTS 9,12;

Campbell County

Buffalo FO

Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 15 to Jul 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) Surface occupancy or use within 1/4 mile of a Greater sage-grouse strutting/dancing ground will be restricted or prohibited unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting Greater sage-grouse breeding habitat.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to

a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0904-023 77.760 Acres
T.0510N, R.0690W, 06th PM, WY
Sec. 019 LOTS 7,9;

Campbell County
Buffalo FO
Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence

of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo RMP map; (3) protecting *Haliaeetus leucocephalus* (Bald eagle).

WY-0904-024 38.620 Acres
T.0510N, R.0690W, 06th PM, WY
Sec. 033 LOTS 1;

Campbell County
Buffalo FO
Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing

activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo RMP map; (3) protecting *Haliaeetus leucocephalus* (Bald eagle).

WY-0904-025 82.850 Acres
T.0500N, R.0700W, 06th PM, WY
Sec. 034 LOTS 2,3;

Campbell County
Buffalo FO
Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Feb 1 to Jul 31; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Raptors.

CSU (1) Surface occupancy or use will be restricted or prohibited unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting Class I and/or Class II Visual Resource Management Areas.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to

result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) entire lease; (3) protecting Species listed under the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq.

WY-0904-026 162.900 Acres

T.0520N, R.0700W, 06th PM, WY

Sec. 006 LOTS 8,15;

033 LOTS 1,2;

Campbell County

Buffalo FO

Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 15 to Jul 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) Surface occupancy or use within 1/4 mile of a Greater sage-grouse strutting/dancing ground will be restricted or prohibited unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting Greater sage-grouse breeding habitat.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or

other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0904-027 80.810 Acres
T.0510N, R.0710W, 06th PM, WY
Sec. 015 LOTS 1,2;

Campbell County
Buffalo FO
Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 15 to Jul 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) Surface occupancy or use within 1/4 mile of a Greater sage-grouse strutting/dancing ground will be restricted or prohibited unless the operator and surface

managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting Greater sage-grouse breeding habitat.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse); *Haliaeetus leucocephalus* (Bald eagle).

WY-0904-028 90.930 Acres
T.0510N, R.0710W, 06th PM, WY
Sec. 024 LOTS 2,3;
Campbell County
Buffalo FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 15 to Jul 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

TLS (1) Feb 1 to Jul 31; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Raptors.

CSU (1) Surface occupancy or use within 1/4 mile of a Greater sage-grouse strutting/dancing ground will be restricted or prohibited unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting Greater sage-grouse breeding habitat.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0904-029 78.970 Acres
T.0520N, R.0710W, 06th PM, WY
Sec. 023 LOTS 1,2;

Campbell County
Buffalo FO
Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) entire lease; (3) protecting Species listed under the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq.

WY-0904-030 93.160 Acres
T.0520N, R.0710W, 06th PM, WY
Sec. 033 LOTS 6,7;

Campbell County
Buffalo FO
Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) entire lease; (3) protecting Species listed under the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq.

WY-0904-031 80.110 Acres
T.0540N, R.0710W, 06th PM, WY
Sec. 013 LOTS 10,11;

Campbell County
Buffalo FO

Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

CSU (1) Surface occupancy or use within 1/4 mile of a Greater sage-grouse strutting/dancing ground will be restricted or prohibited unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting Greater sage-grouse breeding habitat.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse); *Haliaeetus leucocephalus* (Bald eagle).

WY-0904-035 40.000 Acres
T.0420N, R.0770W, 06th PM, WY
Sec. 032 SWSW;

Johnson County

Buffalo FO

Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) entire lease; (3) protecting Species listed under the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq.

8.7 June 2009 Final Parcel List

WY-0906-009 83.220 Acres

T.0470N, R.0690W, 06th PM, WY

Sec. 020 LOTS 8,11;

Campbell County

Buffalo FO

Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 01 to Jun 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) Surface occupancy or use within 1/4 mile of a Greater sage-grouse strutting/dancing ground will be restricted or prohibited unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting Greater sage-grouse breeding habitat.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or

critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0906-012 1340.510 Acres

T.0410N, R.0700W, 06th PM, WY

Sec. 029 LOTS 9-16;

030 LOTS 13-20;

031 LOTS 5-12,16,17,19,20;

032 LOTS 3,4,7,12;

034 LOTS 9;

Converse County

Casper FO

Buffalo FO

Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Feb 1 to Jul 31; (2) as mapped on the Casper Field Office GIS database; (3) protecting nesting Raptors.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a

designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Spiranthes diluvialis* (Ute ladies'-tresses); *Haliaeetus leucocephalus* (Bald eagle).

CSU (1) Surface use or occupancy shall not be allowed by oil and gas lessee(s), operating rights holders(s), and/or oil and gas operator(s) on this Federal oil and gas lease to conduct any oil and gas operation, including drilling for, removing, or disposing of oil and/or gas contained in the Federal coal leases W-0322255, W-0322255B, W-154001, W-128322 unless a plan for mitigation of anticipated impacts is developed between the oil and gas and the coal lessees, and the plan is approved by the Authorized Officer; (2) as mapped on the Casper Field Office GIS database and the Buffalo Field Office GIS database; (3) For the purpose of protecting the first in time valid existing rights of the coal lessee, the Authorized Officer reserves the right to alter or modify any oil and gas operations on the lands described in this lease ensuring: a.) the orderly development of the coal resource by surface and/or underground mining methods; b.) coal mine worker safety; and/or c.) coal production rates or recovery of the coal resource. The oil and gas lessee(s), operating rights holders(s), and/or oil and gas operator(s) of this Federal oil and gas lease shall not hold the United States as lessor, coal lessee(s), sub-lessee(s), and/or coal operator(s) liable for any damage or loss of the oil and gas resource, including the venting of coal bed methane gas, caused by

coal exploration or mining operations
conducted on Federal coal leases W-0322255,
W-0322255B, W-154001, W-128322.

WY-0906-013 39.880 Acres
T.0440N, R.0700W, 06th PM, WY
Sec. 013 LOTS 3;

Campbell County
Buffalo FO
Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo RMP map; (3) protecting Species listed under the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq.

WY-0906-014 84.910 Acres
T.0470N, R.0700W, 06th PM, WY
Sec. 002 LOTS 10,11;

Campbell County

Buffalo FO

Casper FO

Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 01 to Jun 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

TLS (1) Feb 1 to Jul 31; (2) as mapped on the Casper Field Office GIS database; (3) protecting nesting Raptors.

CSU (1) Surface occupancy or use within 1/4 mile of a Greater sage-grouse strutting/dancing ground will be restricted or prohibited unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting Greater sage-grouse breeding habitat.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing

activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse); *Haliaeetus leucocephalus* (Bald eagle).

WY-0906-015 1378.270 Acres
T.0570N, R.0700W, 06th PM, WY
Sec. 005 W2SW;
 006 LOTS 11-14;
 006 SESW,NESE,S2SE;
 007 LOTS 5,6,8;
 007 NE,E2NW,N2SE,SESE;
 008 NWNW,S2N2,S2;

Campbell County
Buffalo FO
Formerly Lease No.
Stipulations:

Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 01 to Jun 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

TLS (1) Feb 1 to Jul 31; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Raptors.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their

habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse); *Haliaeetus leucocephalus* (Bald eagle).

WY-0906-016 495.310 Acres
T.0570N, R.0700W, 06th PM, WY

Sec. 014 NE,NESE;
021 LOTS 2-4;
021 S2SE;
022 LOTS 3,5;
022 SWSW,SWSE;

Campbell County
Buffalo FO
Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to

a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo RMP map; (3) protecting Species listed under the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq.

WY-0906-018 480.000 Acres
T.0570N, R.0700W, 06th PM, WY
Sec. 027 SWNE,NWNW,S2SW,SESE;
034 E2E2,N2NW,SWNW;

Campbell County
Buffalo FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Special Lease Stipulation

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to

result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo RMP map; (3) protecting Species listed under the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq.

WY-0906-021 204.570 Acres
T.0510N, R.0710W, 06th PM, WY
Sec. 005 LOTS 11,12;
 007 LOTS 5,6,9;

Campbell County
Buffalo FO
Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the

destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo RMP map; (3) protecting *Haliaeetus leucocephalus* (Bald eagle).

WY-0906-034 320.000 Acres
T.0410N, R.0810W, 06th PM, WY
Sec. 008 W2E2,NW;

Johnson County

Buffalo FO

Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Feb 1 to Jul 31; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Raptors.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM

will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse); *Haliaeetus leucocephalus* (Bald eagle).

WY-0906-035 80.000 Acres
T.0410N, R.0810W, 06th PM, WY
Sec. 017 W2W2SW;
020 W2W2NW;

Johnson County
Buffalo FO
Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or

critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse); *Haliaeetus leucocephalus* (Bald eagle).

WY-0906-036 160.000 Acres
T.0410N, R.0810W, 06th PM, WY
Sec. 029 SW;

Natrona County

Buffalo FO

Casper FO

Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Feb 1 to Jul 31; (2) as mapped on the Casper Field Office GIS database; (3) protecting nesting Raptors.

CSU (1) Surface occupancy or use within 1/4 mile of Class I and Class II waters may be restricted or prohibited unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Casper Field Office GIS database; (3) protecting Class I and Class II waters.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their

habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) entire lease; (3) protecting Species listed under the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq.

8.8 August 2009 Final Parcel List

WY-0908-013 39.440 Acres

T.0430N, R.0690W, 06th PM, WY

Sec. 017 LOTS 12;

Campbell County

Buffalo FO

Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Nov 15 to Apr 30; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting big game on crucial winter range.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to

a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo RMP map; (3) protecting Species listed under the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq.

WY-0908-014 40.610 Acres

T.0470N, R.0690W, 06th PM, WY

Sec. 020 LOTS 5;

Campbell County

Buffalo FO

Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 1 to Jun 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their

habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0908-015 41.040 Acres

T.0470N, R.0690W, 06th PM, WY

Sec. 020 LOTS 10;

Campbell County

Buffalo FO

Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 1 to Jun 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or

disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0908-016 39.780 Acres
T.0480N, R.0700W, 06th PM, WY
Sec. 026 LOTS 15;

Campbell County
Buffalo FO
Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 1 to Jun 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to

result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0908-017 76.190 Acres

T.0500N, R.0700W, 06th PM, WY

Sec. 018 LOTS 8,9;

Campbell County

Buffalo FO

Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 15 to Jul 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) Surface occupancy or use will be restricted or prohibited unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting Class I and/or Class II Visual Resource Management Areas.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may

recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0908-018 156.380 Acres
T.0520N, R.0700W, 06th PM, WY
Sec. 012 LOTS 2,5,6,9;
Campbell County
Buffalo FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Special Lease Stipulation
TLS (1) Mar 15 to Jul 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.
CSU (1) Surface occupancy or use within 1/4 mile of a Greater sage-grouse strutting/dancing ground will be restricted or prohibited unless the operator and surface managing agency arrive at an acceptable plan

for mitigation of anticipated impacts; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting Greater sage-grouse breeding habitat.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse); *Haliaeetus leucocephalus* (Bald eagle).

WY-0908-019 78.690 Acres
T.0510N, R.0710W, 06th PM, WY
Sec. 004 LOTS 6,9;
Campbell County
Buffalo FO
Formerly Lease No.
Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo RMP map; (3) protecting Species listed under the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq.

WY-0908-020 41.320 Acres
T.0510N, R.0710W, 06th PM, WY
Sec. 026 LOTS 4;
Campbell County
Buffalo FO
Formerly Lease No.
Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo GIS database; (3) protecting *Haliaeetus leucocephalus* (Bald eagle).

WY-0908-021 80.290 Acres
T.0520N, R.0710W, 06th PM, WY
Sec. 028 LOTS 7,10;
Campbell County
Buffalo FO
Formerly Lease No.
Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo RMP map; (3) protecting Species listed under the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq.

8.9 October 2009 Final Parcel List

WY-0910-025 479.890 Acres
T.0470N, R.0690W, 06th PM, WY
Sec. 018 LOTS 8-19;
Campbell County
Buffalo FO
Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 1 to Jun 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0910-026 41.230 Acres
T.0470N, R.0690W, 06th PM, WY
Sec. 029 LOTS 2;
Campbell County
Buffalo FO
Formerly Lease No.
Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 1 to Jun 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0910-027 83.060 Acres
T.0540N, R.0690W, 06th PM, WY
Sec. 010 LOTS 1,2;
Campbell County
Buffalo FO
Formerly Lease No.
Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 1 to Jun 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0910-028 80.550 Acres
T.0470N, R.0700W, 06th PM, WY
Sec. 012 LOTS 6,7;
Campbell County
Buffalo FO
Formerly Lease No.
Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 1 to Jun 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse); *Haliaeetus leucocephalus* (Bald eagle).

WY-0910-029 387.640 Acres
T.0510N, R.0700W, 06th PM, WY
Sec. 006 LOTS 10;
007 LOTS 8-15;
008 LOTS 2;
Campbell County

Buffalo FO

Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Feb 1 to Jul 31; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Raptors.

TLS (1) Mar 1 to Jun 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0910-030 560.000 Acres

T.0560N, R.0700W, 06th PM, WY

Sec. 001 SE;

010 E2NE,NESE;

011 N2SW,SESW,SE;

Campbell County

Buffalo FO

Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Feb 1 to Jul 31; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Raptors.

TLS (1) Mar 1 to Jun 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-

grouse).

WY-0910-031 756.920 Acres
T.0560N, R.0700W, 06th PM, WY
Sec. 002 LOTS 6-12;
 002 SW;
 003 LOTS 7-10;
 003 SE;

Campbell County
Buffalo FO
Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 1 to Jun 15; (2) as mapped on
the Buffalo Field Office GIS database; (3)
protecting nesting Greater sage-grouse.

CSU (1) The lease area may now or hereafter
contain plants, animals, or their habitats
determined to be threatened, endangered, or
other special status species. BLM may
recommend modifications to exploration and
development proposals to further its
conservation and management objective to avoid
BLM-approved activity that will contribute to
a need to list such a species or their
habitat. BLM may require modifications to or
disapprove proposed activity that is likely to
result in jeopardy to the continued existence
of a proposed or listed threatened or
endangered species or result in the
destruction or adverse modification of a
designated or proposed critical habitat. BLM
will not approve any ground-disturbing
activity that may affect any such species or
critical habitat until it completes its
obligations under applicable requirements of
the Endangered Species Act as amended, 16
U.S.C. § 1531 et seq., including completion of
any required procedure for conference or

consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0910-032 1876.350 Acres
T.0560N, R.0700W, 06th PM, WY
Sec. 003 LOTS 5,6,11-20;
 003 SW;
 004 LOTS 6-12,14,16,17,19;
 004 SE;
 012 ALL;

Campbell County
Buffalo FO
Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Feb 1 to Jul 31; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Raptors.

TLS (1) Mar 1 to Jun 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM

will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0910-033 2536.300 Acres
T.0560N, R.0700W, 06th PM, WY
Sec. 004 LOTS 5;
 004 SW;
 005 LOTS 6-11,13-20;
 005 S2;
 006 LOTS 8-30;
 006 SE;
 007 LOTS 5;
 007 NE,N2SE,SESE;
 008 SW;

Campbell County
Buffalo FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 1 to Jun 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to

a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse); *Haliaeetus leucocephalus* (Bald eagle).

WY-0910-034 240.000 Acres
T.0560N, R.0700W, 06th PM, WY
Sec. 004 LOTS 13,15,18,20;
009 W2NE;

Campbell County
Buffalo FO
Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 1 to Jun 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) Surface occupancy or use within 1/4 mile of a Greater sage-grouse strutting/dancing ground will be restricted or prohibited unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Buffalo Field Office GIS

database; (3) protecting Greater sage-grouse breeding habitat.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0910-035 1919.160 Acres
T.0560N, R.0700W, 06th PM, WY
Sec. 005 LOTS 5,12;
 009 N2SW,SE;
 010 SESE;
 011 SWSW;
 014 W2NW,E2SW;
 015 E2NE,SE;
 017 N2,SE;
 020 N2NE,SENE;
 021 N2N2,SENE,SWNW,NWSW;
 022 SENE,W2NW,SESW,NESE,SWSE;

Campbell County
Buffalo FO
Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 1 to Jun 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) Surface occupancy or use within 1/4 mile of a Greater sage-grouse strutting/dancing ground will be restricted or prohibited unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting Greater sage-grouse breeding habitat.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo

Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0910-036 160.000 Acres
T.0560N, R.0700W, 06th PM, WY
Sec. 008 NW;

Campbell County
Buffalo FO
Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 15 to Jul 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo

Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0910-037 1000.740 Acres
T.0560N, R.0700W, 06th PM, WY
Sec. 011 N2NE,NW;
013 LOTS 1-3;
013 N2NW;
013 TR 37,38;
014 LOTS 1;
014 N2NE,SWNE,NENW;
014 TR 38;
023 NENW,S2NW;
024 W2SW;
024 TR 37;

Campbell County
Buffalo FO
Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Feb 1 to Jul 31; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Raptors.

TLS (1) Mar 1 to Jun 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence

of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0910-038 120.000 Acres
T.0560N, R.0700W, 06th PM, WY
Sec. 011 SENE;
014 TR 40;
023 TR 40;

Campbell County
Buffalo FO
Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or

endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) entire lease; (3) protecting Species listed under the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq.

WY-0910-039 80.230 Acres
T.0560N, R.0700W, 06th PM, WY
Sec. 015 LOTS 1-4;

Campbell County

Buffalo FO

Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 1 to Jun 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the

destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0910-041 20.000 Acres
T.0420N, R.0780W, 06th PM, WY
Sec. 035 S2NESE;

Johnson County

Buffalo FO

Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 1 to Jun 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a

designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

8.10 December 2009 Final Parcel List

WY-0912-019 40.450 Acres

T.0470N, R.0700W, 06th PM, WY

Sec. 012 LOTS 3;

Campbell County

Buffalo FO

Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 15 to Jul 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the

destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse); *Haliaeetus leucocephalus* (Bald eagle).

WY-0912-020 202.130 Acres

T.0480N, R.0700W, 06th PM, WY

Sec. 026 LOTS 1,2,7,8,10;

Campbell County

Buffalo FO

Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 15 to Jul 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

TLS (1) Feb 1 to Jul 31; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Raptors.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to

result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database. (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-0912-023 77.700 Acres
T.0510N, R.0710W, 06th PM, WY
Sec. 004 LOTS 13,15;

Campbell County
Buffalo FO
Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a

designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting Species listed under the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq.

WY-0912-024 89.170 Acres
T.0520N, R.0710W, 06th PM, WY
Sec. 031 LOTS 13,14;

Campbell County
Buffalo FO
Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Feb 1 to Jul 31; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Raptors.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM

will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Haliaeetus leucocephalus* (Bald eagle).

8.11 February 2010 Final Parcel List

WY-1002-004 159.190 Acres
T.0570N, R.0710W, 06th PM, WY
Sec. 018 LOTS 6;
018 E2NE,NWSE;

Campbell County
Buffalo FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Special Lease Stipulation

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing

activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-1002-005 29.850 Acres

T.0570N, R.0710W, 06th PM, WY

Sec. 020 LOTS 2;

Campbell County

Buffalo FO

Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Feb 1 to Jul 31; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Raptors.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its

obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting Species listed under the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq.

WY-1002-012 1439.900 Acres
T.0410N, R.0810W, 06th PM, WY
Sec. 005 LOTS 1;
 005 SENE;
T.0420N, R.0810W, 06th PM, WY
Sec. 028 NE;
 029 S2SW,SESE;
 032 E2E2,W2NW,N2SW;
 033 W2,SE;
 034 NWNW,S2NW,SW;

Johnson County

Buffalo FO

Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Feb 1 to Jul 31; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Raptors.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or

endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Haliaeetus leucocephalus* (Bald eagle).

8.12 May 2010 Final Parcel List

WY-1005-015 40.950 Acres
T.0470N, R.0690W, 06th PM, WY
Sec. 021 LOTS 1;

Campbell County

Buffalo FO

Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 15 to Jul 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence

of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse).

WY-1005-022 292.330 Acres

T.0470N, R.0700W, 06th PM, WY

Sec. 002 LOTS 5-9;

003 LOTS 5;

012 LOTS 4;

Campbell County

Buffalo FO

Formerly Lease No.

Stipulations:

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Special Lease Stipulation

TLS (1) Mar 15 to Jul 15; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting nesting Greater sage-grouse.

TLS (1) Feb 1 to Jul 31; (2) as mapped on the Buffalo RMP map; (3) protecting nesting Raptors.

CSU (1) Surface occupancy or use within 1/4 mile of a Greater sage-grouse strutting/dancing ground will be restricted or prohibited unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting Greater sage-grouse

breeding habitat.

CSU (1) The lease area may now or hereafter contain plants, animals, or their habitats determined to be threatened, endangered, or other special status species. BLM may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid BLM-approved activity that will contribute to a need to list such a species or their habitat. BLM may require modifications to or disapprove proposed activity that is likely to result in jeopardy to the continued existence of a proposed or listed threatened or endangered species or result in the destruction or adverse modification of a designated or proposed critical habitat. BLM will not approve any ground-disturbing activity that may affect any such species or critical habitat until it completes its obligations under applicable requirements of the Endangered Species Act as amended, 16 U.S.C. § 1531 et seq., including completion of any required procedure for conference or consultation; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting *Centrocercus urophasianus* (Greater sage-grouse); *Haliaeetus leucocephalus* (Bald eagle).

9 APPENDIX B

Parcel Information

Lease Serial Number	Parcel ID	Status	acreage	bonus bid	rental	filing fee	Lease Issuance recommendation	Recommend deferral for RMP Revision	Recommend deferral for Sage Grouse Core Areas	Recommend deferral for Wilderness Characteristics	Recommend deferral for Stipulation Modification
WYW 176519	0806-13	Sold, not issued	80.00	\$1,280.00	120.00	140.00	Issue				
WYW 177089	0808-13	Sold, not issued	42.09	\$1,118.00	64.50	140.00	Issue				
WYW 177090	0808-14	Sold, not issued	40.00	\$1,080.00	60.00	140.00	Issue				
WYW 177094	0808-18	Sold, not issued	162.47	\$6,846.00	244.50	140.00	Defer Issuance	X	x		
WYW 177102	0808-26	Sold, not issued	751.54	\$90,240.00	1,128.00	140.00	Defer Issuance	X-coal			
WYW 177103	0808-27	Sold, not issued	702.26	\$119,510.00	1,054.50	140.00	Defer Issuance	X-coal			
WYW 177104	0808-28	Sold, not issued	161.71	\$19,440.00	243.00	140.00	Issue				
WYW 177105	0808-29	Sold, not issued	692.60	\$90,090.00	1,039.50	140.00	Defer Issuance	X	x		
WYW 177106	0808-30	Sold, not issued	641.18	\$44,940.00	963.00	140.00	Defer Issuance	X	x		
WYW 177107	0808-31	Sold, not issued	79.42	\$7,760.00	120.00	140.00	Issue				
WYW 177108	0808-32	Sold, not issued	477.80	\$14,340.00	717.00	140.00	Defer Issuance	X	x		
WYW 177109	0808-33	Sold, not issued	159.84	\$5,760.00	240.00	140.00	Issue				
WYW 177110	0808-34	Sold, not issued	234.47	\$7,050.00	352.50	140.00	Defer Issuance	X	x		
WYW 177111	0808-35	Sold, not issued	81.32	\$1,230.00	123.00	140.00	Issue				
WYW 177143	0808-69	Sold, not issued	845.14	\$46,530.00	1,269.00	140.00	Issue				
WYW 177241	0808-75	Sold, not issued	841.12		1,263.00	360.00	Issue				
WYW 177147	0808-76	Sold, not issued	843.12	\$1,688.00	1,266.00	140.00	Issue				
WYW 177149	0808-79	Sold, not issued	520.00	\$1,560.00	780.00	140.00	Issue				
WYW 177337	0810-21	Sold, not issued	241.90	\$14,520.00	363.00	140.00	Issue				

WYW 177338	0810-22	Sold, not issued	80.17	\$1,701.00	121.50	140.00	Defer Issuance	X			X
WYW 177339	0810-23	Sold, not issued	42.84	\$1,419.00	64.50	140.00	Issue				
WYW 177340	0810-24	Sold, not issued	79.59	\$2,400.00	120.00	140.00	Defer Issuance	X	x		
WYW 177341	0810-25	Sold, not issued	291.76	\$12,264.00	438.00	140.00	Defer Issuance	X	x		
WYW 177348	0810-32	Sold, not issued	240.31	\$14,460.00	361.50	140.00	Issue				
WYW 177349	0810-33	Sold, not issued	78.45	\$1,580.00	118.50	140.00	Issue				
WYW 177350	0810-34	Sold, not issued	81.01	\$1,722.00	123.00	140.00	Defer Issuance	X			X
WYW 177356	0810-40	Sold, not issued	78.46	\$1,975.00	118.50	140.00	Issue				
WYW 177369	0810-53	Sold, not issued	2492.90	\$4,986.00	3,739.50	140.00	Issue				
WYW 177370	0810-54	Sold, not issued	1640.00	\$19,680.00	2,460.00	140.00	Issue				
WYW 177678	0812-28	Sold, not issued	40.69	\$4,100.00	61.50	140.00	Issue				
WYW 177679	0812-29	Sold, not issued	118.69	\$3,451.00	178.50	140.00	Issue				
WYW 177683	0812-33	Sold, not issued	159.96	\$320.00	240.00	140.00	Defer Issuance	X	x		
WYW 177684	0812-34	Sold, not issued	80.80	\$1,377.00	121.50	140.00	Defer Issuance	X	x		
WYW 177685	0812-35	Sold, not issued	2231.62	\$4,464.00	3,348.00	140.00	Issue				
WYW 177693	0812-43	Sold, not issued	1048.11	\$131,125.00	1,573.50	140.00	Defer Issuance	X	x		
WYW 177694	0812-44	Sold, not issued	78.97	\$158.00	118.50	140.00	Defer Issuance	X	x		
WYW 177998	0902-45	Sold, not issued	41.22	\$3,108.00	63.00	140.00	Issue				
WYW 177999	0902-46	Sold, not issued	162.09	\$4,727.00	244.50	140.00	Defer Issuance	X-coal			
WYW 178001	0902-48	Sold, not issued	79.30	\$880.00	120.00	140.00	Issue				
WYW 178002	0902-49	Sold, not issued	80.77	\$729.00	121.50	140.00	Defer Issuance	X-coal			
WYW 178003	0902-50	Sold, not issued	81.64	\$1,230.00	123.00	140.00	Issue				

WYW 178004	0902-51	Sold, not issued	40.00	\$520.00	60.00	140.00	Issue				
WYW 178005	0902-52	Sold, not issued	1359.91	\$4,080.00	2,040.00	140.00	Issue				
WYW 178007	0902-54	Sold, not issued	440.00	\$6,160.00	660.00	140.00	Defer Issuance	X-coal			
WYW 178017	0902-64	Sold, not issued	560.00	\$1,120.00	840.00	140.00	Defer Issuance	X-coal			X
WYW 178176	0904-22	Sold, not issued	82.27	\$4,565.00	124.50	140.00	Issue				
WYW 178177	0904-23	Sold, not issued	77.76	\$1,716.00	117.00	140.00	Issue				
WYW 178178	0904-24	Sold, not issued	38.62	\$234.00	58.50	140.00	Issue				
WYW 178179	0904-25	Sold, not issued	82.85	\$1,992.00	124.50	140.00	Issue				
WYW 178180	0904-26	Sold, not issued	162.90	\$4,564.00	244.50	140.00	Defer Issuance	X			X
WYW 178181	0904-27	Sold, not issued	80.81	\$1,053.00	121.50	140.00	Issue				
WYW 178182	0904-28	Sold, not issued	90.93	\$2,457.00	136.50	140.00	Issue				
WYW 178183	0904-29	Sold, not issued	78.97	\$1,422.00	118.50	140.00	Issue				
WYW 178184	0904-30	Sold, not issued	93.16	\$752.00	141.00	140.00	Issue				
WYW 178185	0904-31	Sold, not issued	80.11	\$648.00	121.50	140.00	Defer Issuance	X	x		
WYW 178189	0904-35	Sold, not issued	40.00	\$680.00	60.00	140.00	Issue				
WYW 178329	0906-12	Sold, not issued	1340.51	\$65,709.00	2,011.50	140.00	Defer Issuance	X-coal			X
WYW 178330	0906-13	Sold, not issued	39.88	\$80.00	60.00	140.00	Defer Issuance	X-coal			
WYW 178331	0906-14	Sold, not issued	84.91	\$1,870.00	127.50	140.00	Issue				
WYW 178332	0906-15	Sold, not issued	1378.27	\$30,338.00	2,068.50	140.00	Issue				
WYW 178333	0906-16	Sold, not issued	495.31	\$14,880.00	744.00	140.00	Issue				
WYW 178335	0906-18	Sold, not issued	480.00	\$6,720.00	720.00	140.00	Issue				
WYW 178338	0906-21	Sold, not issued	204.57	\$3,485.00	307.50	140.00	Issue				

WYW 178351	0906-34	Sold, not issued	320.00	\$640.00	480.00	140.00	Defer Issuance	X	x		
WYW 178352	0906-35	Sold, not issued	80.00	\$160.00	120.00	140.00	Defer Issuance	X	x		
WYW 178353	0906-36	Sold, not issued	160.00	\$320.00	240.00	140.00	Defer Issuance	X	x		
WYW 178326	0906-9	Sold, not issued	83.22	\$5,460.00	126.00	140.00	Issue				
WYW 178495	0908-13	Sold, not issued	39.44	\$9,600.00	60.00	140.00	Issue				
WYW 178496	0908-14	Sold, not issued	40.61	\$2,665.00	61.50	140.00	Issue				
WYW 178497	0908-15	Sold, not issued	41.04	\$1,260.00	63.00	140.00	Issue				
WYW 178498	0908-16	Sold, not issued	39.78	\$1,080.00	60.00	140.00	Issue				
WYW 178499	0908-17	Sold, not issued	76.19	\$1,540.00	115.50	140.00	Issue				
WYW 178500	0908-18	Sold, not issued	156.38	\$4,239.00	235.50	140.00	Issue				
WYW 178501	0908-19	Sold, not issued	78.69	\$158.00	118.50	140.00	Issue				
WYW 178502	0908-20	Sold, not issued	41.32	\$672.00	63.00	140.00	Issue				
WYW 178503	0908-21	Sold, not issued	80.29	\$567.00	121.50	140.00	Issue				
WYW 178704	0910-25	Sold, not issued	479.89	\$41,280.00	720.00	145.00	Issue				
WYW 178705	0910-26	Sold, not issued	41.23	\$4,200.00	63.00	145.00	Issue				
WYW 178706	0910-27	Sold, not issued	83.06	\$2,604.00	126.00	145.00	Issue				
WYW 178707	0910-28	Sold, not issued	80.55	\$6,885.00	121.50	145.00	Issue				
WYW 178708	0910-29	Sold, not issued	387.64	\$16,684.00	582.00	145.00	Issue				
WYW 178709	0910-30	Sold, not issued	560.00	\$6,160.00	840.00	145.00	Issue				
WYW 178710	0910-31	Sold, not issued	756.92	\$7,570.00	1,135.50	145.00	Issue				
WYW 178711	0910-32	Sold, not issued	1876.35	\$24,401.00	2,815.50	145.00	Issue				
WYW 178712	0910-33	Sold, not issued	2536.30	\$20,296.00	3,805.50	145.00	Issue				

WYW 178713	0910-34	Sold, not issued	240.00	\$3,600.00	360.00	145.00	Issue				
WYW 178714	0910-35	Sold, not issued	1919.16	\$74,880.00	2,880.00	145.00	Issue				
WYW 178715	0910-36	Sold, not issued	160.00	\$1,280.00	240.00	145.00	Issue				
WYW 178716	0910-37	Sold, not issued	1000.74	\$2,002.00	1,501.50	145.00	Issue				
WYW 178717	0910-38	Sold, not issued	120.00	\$240.00	180.00	145.00	Issue				
WYW 178718	0910-39	Sold, not issued	80.23	\$3,240.00	121.50	145.00	Issue				
WYW 178720	0910-41	Sold, not issued	20.00	\$2,300.00	30.00	145.00	Issue				
WYW 178794	0912-19	Sold, not issued	40.45	\$1,804.00	61.50	145.00	Issue				
WYW 178795	0912-20	Sold, not issued	202.13	\$16,240.00	304.50	145.00	Issue				
WYW 178798	0912-23	Sold, not issued	77.70	\$156.00	117.00	145.00	Issue				
WYW 178799	0912-24	Sold, not issued	89.17	\$180.00	135.00	145.00	Issue				
WYW 178931	1002-12	Sold, not issued	1439.90	\$18,720.00	2,160.00	145.00	Issue				
WYW 178923	1002-4	Sold, not issued	159.19	\$5,600.00	240.00	145.00	Issue				
WYW 178924	1002-5	Sold, not issued	29.85	\$1,050.00	45.00	145.00	Issue				
WYW 179125	1005-15	Sold, not issued	40.95	\$902.00	61.50	145.00	Issue				
WYW 179132	1005-22	Sold, not issued	292.33	\$6,446.00	439.50	145.00	Issue				