Fourth Quarter 2018
Competitive Oil and Gas Lease Sale
BLM Wyoming

Environmental Assessment
DOI-BLM-WY-0000-2018-0004-EA

BLM e-Planning link: https://go.usa.gov/xUAjm
The BLM’s multiple-use mission is to sustain the health and productivity of the public lands for the use and enjoyment of present and future generations. The Bureau accomplishes this by managing such activities as outdoor recreation, livestock grazing, mineral development, and energy production, and by conserving natural, historical, cultural, and other resources on public lands.
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1. Introduction

1.1 Introduction

As required under the Mineral Leasing Act of 1920, as amended (MLA), the Federal Onshore Oil and Gas Leasing Reform Act of 1987 (FOOGLRA), and Title 43 Code of Federal Regulations (CFR) 3120.1-2(a), the BLM-Wyoming State Office (WSO) conducts a quarterly competitive lease sale for nominated oil and gas lease parcels. A Notice of Competitive Oil and Gas Lease Sale (Sale Notice), which lists parcels to be offered at the auction, is published by the WSO at least 45 days before the auction is held. Applicable lease stipulations for each parcel are identified in the Sale Notice. The decision as to which public lands and minerals are open for leasing and what leasing stipulations may be necessary is made during the BLM’s land use planning process in accordance with the Federal Land Policy and Management Act of 1976 (FLPMA). Surface management/use for mineral extraction on non-BLM administered surface overlying federal minerals will be determined by the BLM in consultation with the appropriate surface management agency or the private surface owner at the time such surface use is proposed by the leaseholder or their designated operator.

After the end of the nomination period, the WSO prepared a draft list of lease sale parcels (the “preliminary parcel list”) for this portion of the sale. The WSO submitted the draft list of lease sale parcels to the applicable BLM field and district offices for initial review and processing. Interdisciplinary Teams (IDTs) in each field office, in coordination with their district office, have reviewed the parcels to determine 1) if they are located in areas open to leasing under the approved RMP; 2) the appropriate stipulations required under the approved RMP; 3) whether new information or changed circumstances are present since the land use plan was approved; 4) necessary coordination requirements with other Federal or State agencies; and 5) if there are special conditions of which potential bidders should be made aware. The IDT relied on personal knowledge of the areas involved and reviewed existing databases (including Geographic Information System (GIS) data and digital aerial imagery) and file information to determine the appropriate stipulations. Where the BLM personnel determined field visits were necessary, field visits were made to those parcels where the BLM had legal access; results of any onsite visit is documented in the administrative record. No parcels analyzed in this EA required additional site visitation.

On January 31, 2018, the BLM-Washington Office (WO) issued Instruction Memorandum (IM) 20018-034 (“Updating Oil and Gas Leasing Reform – Land Use Planning and Lease Parcel Reviews”). To comply with IM 2018-034’s parcel review timeframes, the WSO has processed two sets of parcels for the Fourth Quarter 2018 sale. One set of parcels (preliminary parcel numbers WY-184Q-001 through -393) was received through December 21, 2017, and the second set of parcels (preliminary parcel numbers WY-184Q-394 through -702) was received through June 1, 2018. Both sets of parcels are analyzed in this EA and are treated as one set of parcels. (See Map-1)

This Environmental Assessment (EA) has been prepared to document compliance with NEPA including disclosure of the anticipated impacts of leasing and development of the proposed parcels, to the extent reasonably foreseeable.

On September 21, 2018, the District of Idaho issued a Preliminary Injunction Order in W. Watersheds Project v. Zinke, No. 1:18-cv-00187-REB, 2018 U.S. Dist. (D. Idaho Sep. 21, 2018)) requiring BLM to provide additional public comment and a 30 day protest period for parcels in greater sage grouse habitat to be offered at the December 2018 and succeeding competitive oil and gas lease sales. To comply with the Order, BLM extended the public comment period and has updated this EA to remove the three parcels not located in Greater Sage-grouse habitats which were subsequently sold at the December 11, 2018 competitive lease sale, and has updated this EA in response to public comments received and to incorporate additional deferrals resulting from public comments. All changes to this EA are shown in “track changes.”
Map 1. All Nominated Parcels December 2018 lease sale
1.2 Background

The MLA gives the BLM responsibility for oil and gas leasing on about 700 million acres of BLM, national forest, and other federal lands. The BLM seeks to ensure that mineral resources are developed in an environmentally-responsible manner.

As required by 43 CFR § 3120.1-2, the BLM WSO conducts quarterly competitive oil and gas lease sales. Interested parties file Expressions of Interest (EOIs) to nominate parcels for leasing by the BLM. Additional information on the competitive lease sale process is available on-line at: https://www.blm.gov/programs/energy-and-minerals/oil-and-gas/leasing

The Secretary of the Interior has broad authority and discretion under the MLA, FOOGRLA, and FLPMA to administer oil and gas leasing and lease operations on public lands.

If a BLM decision-maker determines that a resource requires mitigation in the form of new allocation decisions or additional lease stipulations, generally the RMP must first be updated or amended.

The offering and subsequent issuance of oil and gas leases is strictly an administrative action, which, in and of itself, does not cause or directly result in any surface disturbance. The issuance of an oil and gas lease, however, does grant to the lessee the rights to occupy, explore for, and develop oil and gas resources from the lease consistent with the lease terms and conditions and upon approval of a site-specific permit by the BLM authorized officer. These lease operations can result in surface-disturbance and other impacts.

Our regulations at 43 CFR § 3162.5-1(a) state: “The operator shall conduct operations in a manner which protects the mineral resources, other natural resources, and environmental quality. In that respect, the operator shall comply with the pertinent orders of the authorized officer and other standards and procedures as set forth in the applicable laws, regulations, lease terms and conditions, and the approved drilling plan or subsequent operations plan. Before approving any Application for Permit to Drill (APD) submitted pursuant to § 3162.3-1 of this title, or other plan requiring environmental review, the authorized officer shall prepare an environmental record of review or an environmental assessment, as appropriate. These environmental documents will be used in determining whether or not an environmental impact statement is required and in determining any appropriate terms and conditions of approval of the submitted plan.”

The BLM cannot determine at the leasing stage whether or not a nominated parcel will actually be leased, or if it is leased, whether or not the lease would be explored or developed.

According to the Tenth Circuit Court of Appeals, site-specific NEPA analysis at the leasing stage may not be possible absent concrete development proposals. Whether such site-specific analysis is required depends upon a fact-specific inquiry. Often, where environmental impacts remain unidentifiable until exploration narrows the range of likely well locations, filing of an Application for Permit to Drill (APD) may be the first useful point at which a site-specific environmental appraisal can be undertaken. (Park County Resource Council, Inc. v. U.S. Department of Agriculture, 10th Cir., April 17, 1987). In addition, the Interior Board of Land Appeals (IBLA) has decided that “BLM is not required to undertake a site-specific environmental review before issuing an oil and gas lease when it previously analyzed the environmental consequences of leasing the land...” (Colorado Environmental Coalition, et al., IBLA 96-243, decided June 10, 1999). However, when site-specific impacts are reasonably foreseeable at the leasing stage, NEPA requires the analysis and disclosure of such reasonably foreseeable site specific impacts. (Yates Petroleum Corp., 176 IBLA 144 (2008); National Wildlife Federation, 169 IBLA 146, 164 (2006)).

Once a parcel is sold and the lease is issued, the lessee has the right to use as much of the leased lands as is necessary to explore and drill for all of the oil and gas within the lease boundaries, subject to the stipulations attached to the lease, restrictions derived from specific nondiscretionary statutes, and other reasonable measures to minimize adverse impacts (see 43 § CFR 3101.1-2).

In accordance with BLM Handbook H-1624-1 (“Planning for Fluid Mineral Resources” January 28, 2013), the Federal Government retains certain rights when issuing an oil and gas lease. While the BLM may not unilaterally add a new stipulation to an existing lease that it has already issued, the BLM can subject development of existing leases to reasonable conditions, as necessary, through the application of COAs at the time of permitting. The new constraints must be in conformance with the applicable land use plan and not conflict with rights granted to the holder under the lease. The Interior Board of Land Appeals has made clear that, when making a decision regarding discrete surface-disturbing oil and gas development activities following site-specific environmental review, the BLM has the authority to impose reasonable measures not otherwise provided for in lease stipulations, to minimize adverse impacts on other resource values. See 30 U.S.C. § 226(g); 43 CFR § 3101.1-2. See also Yates Petroleum Corp., 176 IBLA 144 (2008); National Wildlife Federation, 169 IBLA 146, 164 (2006).
Oil and gas leases are issued for a 10-year period and continue for so long thereafter as oil or gas is produced in paying quantities. If a lessee fails to produce oil and/or gas, does not make annual rental payments, does not comply with the terms and conditions of the lease, or relinquishes the lease, then ownership of the minerals leased revert back to the federal government and may be offered for lease again, all else equal. If a lessee fails to pay rentals timely, or fails to pay the full amount due, the lease can be reinstated following payment of the late fees and publication of a notice in the Federal Register.

Upon cessation of lease operations, if approved, the BLM’s regulations and the terms of the lease agreement require the lessee to plug the well(s) and abandon any facilities on the lease. The surface must be reclaimed to the satisfaction of the BLM authorized officer, in accordance with the Mineral Lease Act of 1920, as amended, or risk being prevented from acquiring new Federal interests until compliance has been achieved.

### 1.3 Purpose and Need

It is the policy of the BLM as derived from various laws, including the Mineral Leasing Act of 1920, as amended (MLA) and the Federal Land Policy and Management Act of 1976 (FLPMA) to make mineral resources available for disposal and to encourage development of mineral resources to meet national, regional, and local needs. Continued sale and issuance of lease parcels in conformance with the approved Resource Management Plans (RMPs) would allow for continued production of oil and gas from public lands and reserves.

The need is to respond to Expressions of Interest, as established by the Federal Onshore Oil & Gas Leasing Reform Act of 1987 (FOOGLRA), MLA, and FLPMA.

#### 1.3.1 Decisions to Be Made

Decisions to be made based on this analysis include which parcels would be offered for lease and what stipulations will be placed on the parcels that would be offered for lease under this sale, in conformance with the approved RMPs.

### 1.4 Tiering and Conformance with BLM Land Use Plans and Other Environmental Assessments

Pursuant to 40 CFR § 1508.28 and § 1502.21, this EA tiers to the Final Environmental Impacts Statements (FEISs) prepared for each Field Office RMP, and any subsequent amendments or updates, and incorporates by reference the relevant portions of the FEISs. The impacts analysis in the FEISs for the effects from oil and gas leasing and development incorporates the Reasonably Foreseeable Development (RFD) scenarios (i.e., the level of oil and gas development projected for the life of the plan based on historically and projected trends).

The EA conforms to the approved RMPs (43 CFR § 1610.5) and Records of Decision (RODs) for the applicable planning areas, as amended or updated, including:

**High Plains District (HPD)**

- The Proposed RM) and FEIS for the Buffalo Field Office (BFO) (May 2015) and the RMP/ROD signed on September 21, 2015.
- The Proposed RMP and FEIS for the Casper Field Office (CFO) Planning Area (June 2007) and the RMP/ROD approved on December 7, 2007, as amended by the Wyoming Greater Sage-Grouse Proposed Land Use Plan Amendment and FEIS (May 2015), and the RMP/ROD approved on September 21, 2015.
- The FEIS for the Newcastle Field Office (NFO) RMP (June 1999) and the RMP/ROD approved on August 25, 2000, as amended by the Wyoming Greater Sage-Grouse Proposed Land Use Plan Amendment and FEIS (May 2015), and the RMP/ROD approved on September 21, 2015.

**Wind River/Bighorn Basin District (WRBBD)**

- The Proposed RMP and FEIS for the Lander Field Office (LFO) Planning Area (February 2013), and the RMP/ROD signed on June 26, 2014.
- The Bighorn Basin Proposed RMP and FEIS (May 2015); the Rocky Mountain Region ROD and Worland Field Office (WFO) RMP signed on September 22, 2015; and the Rocky Mountain Region ROD and Cody Field Office (CYFO) RMP signed on September 22, 2015.
High Desert District (HDD)

- The Proposed RMP and FEIS for the Rawlins Field Office (RFO) Planning Area (January 2008) and the RMP/ROD approved on December 24, 2008, as amended by the Wyoming Greater Sage-Grouse Proposed Land Use Plan Amendment and FEIS (May 2015), and the RMP/ROD approved on September 21, 2015.
- The Proposed RMP and FEIS for the Green River (Rock Springs Field Office, or RSFO) Planning Area (April 1996) and the RMP/ROD approved on August 8, 1997, as amended by the Wyoming Greater Sage-Grouse Proposed Land Use Plan Amendment and FEIS (May 2015), and the RMP/ROD approved on September 21, 2015.
- The Proposed RMP and FEIS for the Pinedale Field Office (PFO) Planning Area (August 2008) and the RMP/ROD approved on November 26, 2008, as amended by the Wyoming Greater Sage-Grouse Proposed Land Use Plan Amendment and FEIS (May 2015), and the RMP/ROD approved on September 21, 2015.

The field office RMPs, as revised or amended, include allocation decisions which identify lands as either open or closed to fluid mineral leasing, and (if open) provide stipulations that are attached to new leases to mitigate effects of potential development operations.

This EA serves to verify conformance with the approved RMPs and disclose the affected environment, the anticipated impacts and proposed mitigation of potential and reasonably-foreseeable impacts. The EA provides evidence for determining whether to prepare an EIS or to support a “Finding of No Significant Impact” (FONSI). An EIS would be prepared for the project if the decision maker determines that this project has significant impacts not already disclosed and analyzed in other NEPA documents, such as the RMP EISs, based upon the analysis in the EA. A FONSI documents the reasons why implementation of the selected alternative would not result in “significant” environmental impacts (effects). The RMP EISs have already evaluated potentially significant impacts arising from the BLM’s land use planning decisions. See 43 CFR § 46.140(c). Therefore, the BLM anticipates a “finding of no significant impacts” (FONSI). When a FONNSI is reached, a Decision Record (DR) may be signed approving the selected alternative, which could be the proposed action, another alternative, or a combination thereof.

1.5 Relationship to Statutes, Regulations, and Other Plans or Decisions

The proposed action and alternatives are consistent with other plans, programs, and policies of other federal agencies, the State of Wyoming, local governments, and affected Tribes, to the extent practical, including but not limited to the following:

- The National Environmental Policy Act [42 U.S.C. 4321 et seq.]
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations
- Protection of Historic Properties (36 CFR § 800)
- Bald and Golden Eagle Protection Act of 1940, as amended [16 U.S.C. § 668 et seq.]

In an opinion and amended order on March 26, 2018, the U.S. District Court for the District of Montana found that the BLM violated NEPA in the Final EISs for the Buffalo and Miles City RMPs (Western Organization of Resource Councils et al. v. BLM). The Court found:

1. “NEPA requires BLM to conduct new coal screening and consider climate change impacts to make a reasoned decision on the amount of recoverable coal made available in the RMPs.” (Order at page 46);
2. “BLM must supplement the [RMP FEISs] with an analysis of the environmental consequences of downstream combustion of coal, oil, and gas open to development under each RMP.” (Order at page 47); and
3. “BLM violated NEPA where it failed to justify its use of [Global Warming Potentials, or GWPs] based on a 100-year time horizon rather than the 20-year time horizon of the RMPs. BLM also violated NEPA where it failed to acknowledge evolving science in this area in the Buffalo PRMP and FEIS.” (Order at page 48).

The Court ordered the BLM to comply with these findings “at the lease-level and permit-level for any pending or future coal, oil, or gas developments in the Buffalo RMP and the Miles City RMP until BLM produces the supplemental environmental analyses for the Buffalo RMP and Miles City RMP that comply with NEPA and the APA.” The BLM believes that the proposed Fourth Quarter 2018 competitive oil and gas lease sale complies with the Court’s order by satisfactorily addressing these issues in this EA (see sections 3.3.9 and 4.2.2.2 addressing “Greenhouse Gas Emissions and Climate” including estimates and discussion relating to downstream combustion of oil and gas, and discussion on GWPs).

1.6 Scoping

In order to identify preliminary issues for analysis (see the BLM’s NEPA Handbook H-1790-1 at page 41), the BLM conducted internal scoping. The BLM personnel listed in Attachment 5.7 provided information and input for this EA. Through the BLM’s internal scoping, and in light of the numerous EAs the BLM has prepared for oil and gas lease sales in Wyoming, this EA will not analyze issues that are already satisfactorily addressed in the RMP FEISs, to which it tiers.

A shapefile detailing the first list of parcels for this sale were posted on BLM’s website ahead of BLM releasing this EA for public comment. While this is outside of standard BLM Wyoming practice, the BLM received 1 letter regarding the offering of some of the subject parcels and one letter was received by the Department of the Interior. Issues raised included: offering lands during an RMP amendment, offering lands in the Greater Little Mountain area, recreation, and mule deer crucial winter range and mule deer migration corridors. BLM Wyoming personnel also conferred with the Wyoming Game and Fish Department (WGFD) in accordance with an interagency Memorandum of Understanding. Personnel at the WGFD who reviewed the parcels are listed in 5.8.1.

Finally, parcel 393 has surface lands under the jurisdiction of the Bureau of Reclamation. Previous consent to lease was received on November 6, 2012. BLM confirmed consent, and the stipulations to be attached to this parcel on October 22, 2018.

1.7 Public Participation

Formal public participation was initiated when this EA was entered into the BLM-Wyoming e-Planning database on August 7, 2018 (https://go.usa.gov/xUAjm). A news release was issued on August 24, 2018 notifying the public that this EA is being posted on the BLM Wyoming website for a 14-calendar day public comment period and extended it for an additional 16 calendar days. As required by BLM leasing policies, where parcels include split estate lands, a notification letter was sent to the surface owner(s) identified by the party submitting the EOI. These letters were sent by the High Desert District for the first set of parcels, and by the WSO for the second set of parcels.

All substantive comments on the EA will be reviewed and addressed before the BLM reaches its decision.
2. Description of Alternatives, Including Proposed Action

2.1 Introduction

In January, 2018 a preliminary parcel list of 393 parcels (comprised of approximately 698,589.82 acres) was prepared by the WSO and sent to the applicable field and district offices for review. On June 28, 2018, another list of 309 parcels (comprised of approximately 342,228.23 acres) was prepared by the WSO and sent to the applicable offices for review. The total acreage of the 702 parcels initially nominated is 1,040,818.05 acres. Minus the 720 acres removed as a result of offering the three parcels in December is 1,040,097.95.

A total of 28 whole parcels, and portions of 29 additional parcels have been deleted from the original 702 parcels nominated for this sale because they are in areas that are closed to oil and gas. Whole parcel deletions include: eight parcels in the Rawlins Field Office (RFO) because they are within the Cow Butte/Wild Horse Wildlife Habitat Management Areas (WHMA) (RFO RMP ROD pg 2-34), three parcels in the RFO because they are within the Upper Muddy Creek/Grizzly WHMA (RFO RMP ROD pg 2-41), eleven parcels in the Rock Springs FO (RSFO) because they are within the Red Creek Management Area (Green River RMP ROD pg 12), five parcels in the RSFO because they are in an unnamed area that is unavailable for lease (Green River RMP ROD pg 12), and one parcel in the Pinedale Field Office (PFO) because it is in the Ross Butte Management Area (PFO RMP ROD pg 2-57).

Portions of seven parcels were deleted in the RFO because they are located in the Cow Butte/Wild Horse WHMA, portions of one parcel because it is located in the Upper Muddy Creek/Grizzly WHMA, portions of three parcels in the Ross Butte Management Area, portions of ten parcels in the RFO because they are in the Red Creek Management Area, and portions of seven parcels are located in an area that is unavailable for oil and gas in the RSFO.

Total acres deleted from this sale is 68,682.00. The parcels deleted from this sale will not be considered further (though notes about the BLM’s review of these lands are included in the attachments). These parcels are shown in the below Map and described in Attachments 5.1 and 5.7.

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1 On February 12, 2019, BLM published an Information Notice to delete parcel 635 from the sale; 29 whole parcels were subsequently deleted from the sale.
As a result, the remaining 674 parcels or portions of parcels (comprised of 971,884 acres) are available for lease and are addressed in the alternatives, below.

Seven parcels contain lands in both the RFO and the RSFO, and one parcel contains lands in both the RSFO and the PFO. Both field offices reviewed the applicable portions of parcels located within their respective jurisdictions.

2.2 No Action Alternative

Under the No Action Alternative, BLM Wyoming would not offer the 674 parcels nominated and located in areas open to leasing under the approved RMPs, containing approximately 971,883.79 acres, at the Fourth Quarter 2018 lease sale. This would mean that the Expressions of Interest would be rejected and no lease parcels would be offered. Choosing the No Action alternative would not prevent future leasing in these areas consistent with land use planning decisions and subject to appropriate stipulations, identified in the respective land use plans. Foregoing offering these lands could constrain local supplies and affect expected income in the form of royalty payments from production of the Federal minerals.

2.3 Proposed Action Alternative

Under the Proposed Action Alternative, 584\(^2\) parcels would be offered for lease at the Fourth Quarter/Supplemental February 2019 sale. These parcels contain approximately 791,502.5 acres of federal minerals that are open to oil and gas leasing under the applicable RMP RODs, as amended, including the BLM’s Wyoming Approved Resource Management Plan Amendment (ARMPA) for Greater Sage-Grouse ROD (September 21, 2015).

The decision as to which public lands and minerals are open for leasing and what leasing stipulations may be necessary is made during the land use planning process. Surface management/use for mineral extraction on non-BLM administered land overlaying federal minerals will be determined by the BLM in consultation with the appropriate surface management agency or the private surface owner at the time such surface use is proposed by the leaseholder or designated agent. Under the MLA, issuing oil and gas leases is a discretionary authority conveyed to the Secretary of the Interior. In accordance with this discretionary authority and as described below, certain parcels would be available for offer at the Fourth-Quarter 2018 competitive lease sale, and others are deferred by State Director (SD) discretion. The Proposed Action alternative removes from consideration those parcels, detailed below, that will deferred from sale for the reasons identified below.

Following review of the subject parcels, 79 whole parcels and portions of 27 parcels would be deferred as detailed below, and in Attachments 5.1 and 5.7. Approximately 180,381.3 acres are proposed for deferral under the Proposed Action.

- One whole parcel (423) in the Buffalo Field Office is recommended for deferral because it is located within an active coal mine. Deferral is pending completion of the mining activity so that there are no unresolved conflicts if/when oil and gas development proceeds.

- One whole parcel (323) is proposed for deferral pending the completion of Tribal Consultation as required by the Pinedale RMP Record of Decision (pg. 2-12, item i): “Native American consultation will be conducted before lands containing known rock shelters, rock alignments, Native American burials, rock art sites, or other areas considered important or sacred to modern Native Americans are leased for oil and gas.” Tribal consultation was initiated on April

\(^2\) Following the public comment period an additional seven (7) parcels located in the Rawlins Field office containing 9,195.5 acres would be deferred under State Director discretion and an additional 400 acres would be deferred from parcel 220 in the Pinedale Field Office. The above tables have NOT been updated to account for these additional deferrals but was corrected to account for one parcel that was not included in the original count; they also still include the 3 parcels that were sold at lease sale auction on December 11, 2018.

On February 12, 2019, the BLM published an Information Notice removing from sale 3 whole parcels, and portions of ten more; these parcels contain approximately 9,300 acres. Preliminary Parcel 665 (642 acres) was removed from sale because additional review determined that these lands are not available for lease under the GR RMP. The remaining parcels are deferred at the request of the WGFD due to their location within the Baggs Mule Deer Migration Corridor or stopover habitat within said migration corridor. As a result, the final modified proposed action for the Supplemental 2019 sale would offer 565 parcels containing approximately 758,197.74 acres.

As of February 14, 2019, 98 whole parcels have been deferred from this sale.
4, 2018 and several requests for additional information and time to review and respond have been requested. Upon conclusion of the consultation process, these lands will be re-reviewed for offering at the next available sale.

- One whole parcel (388) in the Kemmerer Field Office is recommended for deferral pending amendment of the Kemmerer RMP. This amendment is necessary to incorporate the results of previous Tribal Consultation in which the consulting tribes requested that BLM allow no disturbance of known burials within the subject lands. Future availability of this parcel is unlikely but cannot be ascertained until the amendment process is completed and a final decision issued.

- Portions of two parcels (402 and 406) in the Newcastle Field Office are recommended for deferral pending completion of Tribal Consultation regarding features that the tribes are reviewing for Traditional Cultural Property status. Tribal Consultation was initiated for other oil and gas related actions but the subject parcels are part of the landscape being evaluated.

- Two whole parcels (113 and 599) are recommended for deferral pending completion of the Visual Resource Management RMP amendment in the Rawlins Field Office. The amendment is the result of a court-ordered remand and constrains the ability of BLM to take actions which may be in conflict with this planning effort.

- The remaining parcel deferrals are pending revision of the Rock Springs RMP and involve such issues including big game migration corridors (one whole parcel), water source supply protection areas for the Town of Superior (4 parcels whole or in part), coal mine conflicts (10 parcels whole or in part), and the Greater Little Mountain area (74 parcels whole or in part). Several of these parcels include multiples of the above listed conflicts. Reasons for deferral are listed in attachment 5.7.

Specific to the parcel deferral in the BFO, the approved RMP generally allows for oil and gas leasing in areas with coal leases, and provide several decisions to reduce the potential for conflicts between oil and gas and coal development, including:

**BFO 2015 RMP:**

RMP Decision O&G-2004: Defer fluid mineral leasing in areas where coal is already leased until fluid mineral development would not interfere with the economic recovery of the coal resources. This is determined on a project-specific basis during fluid mineral lease review.

However, previous BLM-Wyoming guidance also encouraged a case-by-case approach to consideration of potential conflicts and their resolution (see BLM-WY IM WY-98-118; see also guidance dated April 21, 2017 entitled “Suggested District Office – Field Office Coordination Steps to Avoid Potential Conflicts between Proposed Oil & Gas Leases and Existing or Proposed Coal Leases”). In accordance with the WSO’s April 21, 2017 guidance, the BLM would defer these lands under this alternative until: coal mining operations have ceased on the lands and would not conflict with development of oil and gas operations, or when the BLM conclude’s that coal mining and oil and gas operations may be compatible on the same lands (for example, if it is determined that directional drilling from outside the coal mining area is feasible and would not conflict with the existing coal mining operations).

Standard lease terms and conditions would apply (see BLM Form 3100-11). Lease stipulations (as required by 43 CFR § 3101.1-3) are added to each parcel as identified by the applicable approved RMPs. Refer to Attachment 5.1 for a list of the parcels, legal land descriptions, parcel acreages, BLM field office jurisdiction(s), and the proposed stipulations attached to each.

In conformance with regulations in 43 CFR § 3120.2-1, sold oil and gas leases would be issued for a ten-year period and would continue for as long thereafter as oil and gas is produced in paying quantities. If a lessee fails to produce oil and gas, does not make annual rental payments, or relinquishes the lease, the lease would terminate. Leases may be formally cancelled for non-compliance with the terms of the lease as well.

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3 “Mitigation of Mineral Development Conflicts with Emphasis upon Coal and Oil and Gas,” dated December 13, 1988. This policy states, in part: “The BLM recognizes that occasional developmental conflicts between operators in the mineral industries are inevitable. Such conflicts, however, are normally settled by the companies involved in the coincidental mineral operations... If the operators cannot reach a mutually acceptable working agreement in settling problems of simultaneous oil and gas and coal development operations, any unresolved conflicts... will be handled by the appropriate office on a case-by-case basis...”
<table>
<thead>
<tr>
<th>Field Office</th>
<th>Nominated Acres</th>
<th>Deferred Acres</th>
<th>Deleted Acres</th>
<th>Offered Acres</th>
<th>Number of parcels nominated</th>
</tr>
</thead>
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<td>118,666.43</td>
<td>40.51</td>
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<td>CFO</td>
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<td>1,840.00</td>
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<td>126,585.79</td>
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<tr>
<td>NFO</td>
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<td>1,120.00</td>
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<td>16,122.50</td>
<td>27</td>
</tr>
<tr>
<td>PFO</td>
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<td>319.29</td>
<td>3,525.83</td>
<td>25,570.95</td>
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<tr>
<td>RFO</td>
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<td>480</td>
<td>20,345.50</td>
<td>173,513.00</td>
<td>130</td>
</tr>
<tr>
<td>RFO/RSFO</td>
<td>14,452.39</td>
<td>2,560.00</td>
<td>0</td>
<td>11,892.39</td>
<td>8</td>
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<tr>
<td>RSFO</td>
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<td>174,021.5</td>
<td>45,062.95</td>
<td>229,521.11</td>
<td>233</td>
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<td>RSFO/PFO</td>
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<td>0</td>
<td>0</td>
<td>602.42</td>
<td>1</td>
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<tr>
<td>WFO</td>
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<td>0</td>
<td>0</td>
<td>10,123.49</td>
<td>25</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1,040,818.05</strong></td>
<td><strong>181,421.46</strong></td>
<td><strong>68,934.28</strong></td>
<td><strong>791,502.47</strong></td>
<td><strong>702</strong></td>
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### 2018Q4 Proposed Action Parcel Disposition Summary

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<th>Count</th>
<th>Description</th>
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<tr>
<td>11</td>
<td>Defer in part/ Deleted in part</td>
</tr>
<tr>
<td>16</td>
<td>Defer in part/ Offer in part</td>
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<td>19</td>
<td>Deleted in part/ Offer in part</td>
</tr>
<tr>
<td>550</td>
<td>Offer all portions nominated</td>
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</tbody>
</table>

### 2.4 Lease All Available Parcels Alternative

This alternative would offer a total of 674 parcels containing approximately 971,873.79 acres that are in areas open to oil and gas under their respective RMPs, subject to the lease stipulations required under the approved RMPs.

### 2.5 Alternatives Considered and Eliminated from Further Analysis

**Offer All Parcels Subject to Standard Lease Terms and Conditions**

Offering all nominated parcels with only the standard lease terms and conditions on the BLM’s lease form was considered as a means to reduce constraints to oil and gas development on public lands. Such an alternative is not in conformance with the approved RMPs where the applicable RMP prescribes stipulations in accordance with FLMPA’s Section 102(a)(8) mandate to manage the public lands to protect resource values. Therefore, this alternative was not analyzed in detail.

**Offer All Parcels Subject to No Surface Occupancy (NSO) Stipulations**

An alternative was considered that would offer all parcels located in areas open to leasing with a NSO stipulation. This alternative was not carried forward to detailed analysis because it is not in conformance with the approved RMPs and would only prohibit surface occupancy for oil and gas development; other non-oil and gas occupancy may not be similarly constrained. This alternative would unnecessarily limit oil and gas occupancy in areas where the approved RMPs have determined that less restrictive stipulations would adequately mitigate the anticipated impacts under our mandate of multiple-use and sustained yield.

**Defer All Parcels Located in Greater Sage-grouse Habitats**
An additional alternative was considered but not analyzed in detail which would defer offering all parcels located within Greater Sage-grouse Priority Habitat Management Areas (PHMAs) and/or General Habitat Management Areas (GHMAs). This alternative was not analyzed in detail because it would not be in conformance with the approved RMPs. Further, this alternative would effectively, if temporarily, close areas to oil and gas leasing and development where the field office RMPs have determined that these lands are open to leasing with applicable stipulations to conserve Greater Sage-grouse and their habitats.
3. Affected Environment

3.1 Introduction

This section describes the present conditions of various environmental resources that could be affected under the action alternatives, if lands are leased, and if oil and gas exploration and development operations are eventually authorized by the BLM. Descriptions of the affected environment in this section focus on the relevant major resources or issues.

For a complete and detailed description of the affected environment, please refer to the applicable RMP FEISs.

3.2 RMP Special Designations

3.2.1 Wilderness and Wilderness Study Areas

Wilderness Study Areas (WSAs) are managed according to a non-impairment standard. Under this standard, these lands are managed in a manner so as not to impair the suitability of such areas for preservation as wilderness. At present, the BLM manages these lands in accordance with the approved RMPs and the Interim Management Policy for Lands Under Wilderness Review until Congress either designates each WSA as “wilderness” or releases it from consideration and the land reverts to multiple-use management. None of the parcels carried forward for analysis in this sale are located within a WSA but all of the parcels discussed under Section 3.2.2 are within 1 mile of several WSAs.

3.2.2 Lands with Wilderness Characteristics (LWCs)

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

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 under Section 201 of FLPMA to “…maintain on a continuing basis an inventory of all public lands and their resource and other values....” This includes reviewing lands to determine if they possess wilderness characteristics (see Attachment 5.5).

Of the parcels that have been determined to have lands with wilderness characteristics, all of them area in the HDD. Specifically, 56 parcels (79, 85, 87-95, 105-113, 118, 232-235, 245-247, 287, 288, 309, 310, 312, 313, 315-318, 320, 321, 326-331, 650, 679 and 686) have been determined by BLM Interdisciplinary Teams to contain wilderness characteristics (Attachment 5.5). These parcels qualify as LWCs because they are within units which contain at least 5000 contiguous acres of roadless lands, the imprint of mans work is substantially unnoticeable, they have outstanding opportunity for solitude or primitive recreation and they contain natural features of scientific, education, scenic or historical value. The remaining parcels were not found to contain LWCs. If a parcel is not within a 5000’ acre area, they are not reviewed further in accordance with BLM policy contained in Manual 6310. Those parcels which have been determined to have lands with wilderness characteristics are available for oil and gas development under their respective RMPs.

Several parcels (105-113, 650-652, 660, and 687-689) are located within areas nominated by the general public and/or special interest groups as having lands with wilderness characteristics. These Citizen Proposed Wilderness nominations (CWPs) have been reviewed by the requisite field office and have been subjected to new inventory as determined necessary; none of the CWPs were found to contain lands with wilderness character and are available for oil and gas development.
3.2.3 Areas of Critical Environmental Concern (ACECs)

Parcels offered for sale are subject to the stipulations shown in Attachment 5.1, which includes protecting the relevant and important ACEC values.

Included in this sale, the RFO has 4 parcels (660, 662, 665 and 667) within the Greater Sand Dunes ACEC and one parcel (661) within the Steamboat Mountain ACEC. Parcel 519 in the CFO is located within the Jackson Canyon ACEC.

3.2.4 Special Management Areas (SMAs)

The RFO has 29 parcels, whole or in part, containing approximately 38,893 acres, located within the Adobe Town Dispersed Recreation Use Area (DRUA) (79, 85, 86-95, 105-111, 115-118, 124-127, 638 and 640). Parcel 118 is also located within the Monument Valley management area under the Green River RMP.

The RSFO has four parcels located within the Red Desert Watershed SMA (140, 650, 651 and 652), two parcels (682 and 683) are within the Wind River Front SMA, and two parcels within the Pine Mountain SMA (277 and 654).

No other parcels are within RMP delineated Special Management Areas.

One parcel (392) is located approximately 1.2 miles East of Fossil Butte National Management Area; this parcel is split estate with the surface owned by a private individual.

3.3 Air Resources
In addition to the air quality information in the RMPs referenced in Section 1.4, new information about greenhouse gases (GHGs) and their effects on national and global climate conditions has emerged since the base RMPs were prepared. Ongoing 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 are believed to contribute to overall climatic changes, typically referred to as global warming. This EA incorporates an analysis of the contributions of the proposed action to GHG emissions and a general discussion of potential impacts to climate.

Air quality, climate, and visibility are the components of air resources which include applications, activities, and management of the air resource. The BLM must consider and analyze the potential effects of authorized activities on air resources as part of the planning and decision making process. The approved RMPs all address air quality issues, impacts, and potential mitigation. It is important to reiterate the offering and issuing leases is an administrative action, and the offering and the issuing of leases, in and of themselves, does not create air quality impacts.

3.3.1 Air Quality

Regional air quality is influenced by the interaction of meteorology, climate, the magnitude and spatial distribution of local and regional air pollutant sources (including natural sources), and chemical properties of emitted air pollutants. The following sections summarize the existing climate and air quality within the area potentially affected by the parcels under consideration for leasing.

A variety of pollutants can affect air quality; these pollutants and their effects on health, visibility, and ecology are described in the following sections, along with data on existing air quality conditions found within the subject field offices.

The EPA has delegated regulation of air quality to the State of Wyoming and is administered by the Wyoming Department of Environmental Quality (WDEQ). Wyoming Ambient Air Quality Standards (WAAQS) and National Ambient Air Quality Standards (NAAQS) identify maximum limits for concentrations of criteria air pollutants 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 Federal standards, as allowed by the Clean Air Act. Currently, the WDEQ Air Quality Division (AQD) does not have regulations regarding greenhouse gas emissions, although these emissions are regulated indirectly by various other regulations.

Pollutant concentration can be defined as the mass of pollutant present in a volume of air and is reported in units of micrograms per cubic meter (μg/m³), parts per million (ppm), or parts per billion (ppb). The State of Wyoming has used monitoring to determine that the HDD’s planning areas are currently in compliance with Wyoming and Federal ambient air quality standards for all criteria pollutants with the exception of the Upper Green River Basin (UGRB), which includes portions of the KFO and RSFO, and all of the PFO. The UGRB is a designated nonattainment area for the 2006 ozone standard.

For the most part, the counties that lie within the jurisdictional boundaries of the HPD (Natrona, Converse, Platte, Goshen, Niobrara, Weston, Crook, Campbell, Sheridan and Johnson) are classified as in attainment for all state and national ambient air quality standards as defined in the Clean Air Act. The one exception is the City of Sheridan, which was designated as nonattainment for PM10 in 1991 (56 FR 11101). On April 4, 2018, EPA removed the City of Sheridan as a nonattainment zone and approved their limited maintenance plan while re-designating them as in attainment of the NAAQS for PM10 (83 FR 06848).

The counties that lie within the jurisdictional boundaries of the WRBBD (Park, Big Horn, Washakie, Hot Springs, Fremont, Natrona, Carbon, and portions of Sweetwater) are classified as in attainment for all state and national ambient air quality standards.

Relevant air quality monitoring stations are show in the table, below:

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<th>County</th>
<th>Site Name</th>
<th>Type of Monitor Type</th>
<th>Parameter</th>
<th>Operating Schedule</th>
<th>Longitude</th>
<th>Latitude</th>
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<td>Parameter</td>
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<td>---------------------------------------------------------</td>
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<td></td>
<td>Belle Ayr Mine</td>
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<td></td>
<td>Yellowstone National Park – Tower Falls</td>
<td>NADP/NTN</td>
<td>Wet Deposition Ions, Precipitation, pH</td>
<td>Weekly (Ions); Daily Precip</td>
<td>-110.42/</td>
<td>44.917</td>
</tr>
<tr>
<td>Fremont</td>
<td>Lander</td>
<td>SLAMS</td>
<td>PM2.5</td>
<td>Jan. 3</td>
<td>-108.733/</td>
<td>42.833</td>
</tr>
<tr>
<td>County</td>
<td>Site Name</td>
<td>Type of Monitor Type</td>
<td>Parameter</td>
<td>Operating Schedule</td>
<td>Location</td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------</td>
<td>----------------------</td>
<td>---------------------------------------------------------------------------</td>
<td>---------------------------------------------</td>
<td>---------------</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Wet Deposition Ions, Precipitation, pH</td>
<td>Weekly (Ions); Daily (Precip)</td>
<td>-108.85/ 42.734</td>
<td></td>
</tr>
<tr>
<td>Sinks Canyon</td>
<td>NADP/NTN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>South Pass City</td>
<td>NADP/NTN</td>
<td></td>
<td>Wet Deposition Ions, Precipitation, pH</td>
<td>Weekly (Ions); Daily (Precip)</td>
<td>-108.832/ 42.494</td>
<td></td>
</tr>
<tr>
<td>Big Horn</td>
<td>Basin</td>
<td>WARMS CASTNet</td>
<td>Ozone, NO3-, Ammonium, Nitric Acid, Sulfate, Sulfur Dioxide &amp; Meteorology</td>
<td>Jan. 7 (Speciated); Hourly (O3, Met)</td>
<td>-108.041/ 44.28</td>
<td></td>
</tr>
<tr>
<td>Campbell</td>
<td>Thunder Basin</td>
<td>SPM</td>
<td>Ozone, Nitrogen Oxides &amp; Met</td>
<td>Hourly</td>
<td>-105.3/ 44.672</td>
<td></td>
</tr>
<tr>
<td>Thunder Basin</td>
<td>IMPROVE</td>
<td></td>
<td>PM2.5, NO3-, Ammonium, Nitric Acid, Sulfate, Sulfur Dioxide &amp; Meteorology</td>
<td>Jan. 3 (Speciated); Hourly Met.</td>
<td>-105.287/ 44.663</td>
<td></td>
</tr>
<tr>
<td>Johnson</td>
<td>Buffalo</td>
<td>WARMS</td>
<td>PM2.5, NO3-, Ammonium, Nitric Acid, Sulfate, Sulfur Dioxide &amp; Meteorology</td>
<td>Jan. 3 (PM2.5); 1/7 (others); Hourly Met</td>
<td>-106.019/44.144</td>
<td></td>
</tr>
<tr>
<td>Cloud Peak</td>
<td>(Monitoring stopped during 2014)</td>
<td>IMPROVE</td>
<td>PM2.5, NO3-, Ammonium, Nitric Acid, Sulfate, Sulfur Dioxide &amp; Meteorology</td>
<td>Jan. 3 (Speciated); Hourly Met</td>
<td>-106.956/44.333</td>
<td></td>
</tr>
<tr>
<td>Sublette</td>
<td>Boulder</td>
<td>SPM</td>
<td>O3, PM10, NO2</td>
<td>Hourly</td>
<td>-109.753/42.719</td>
<td></td>
</tr>
<tr>
<td>Sublette</td>
<td>Daniel South</td>
<td>SPM</td>
<td>O3, PM10, NO2</td>
<td>Hourly</td>
<td>-110.055/42.791</td>
<td></td>
</tr>
<tr>
<td>Sublette</td>
<td>Juell Spring</td>
<td>SPM</td>
<td>O3, NO2</td>
<td>Hourly</td>
<td>-109.563/42.373</td>
<td></td>
</tr>
<tr>
<td>Sublette</td>
<td>Pinedale</td>
<td>SPM</td>
<td>O3, PM2.5, NO2</td>
<td>Hourly</td>
<td>-109.885/42.853</td>
<td></td>
</tr>
<tr>
<td>Sweetwater</td>
<td>Moxa Arch</td>
<td>SPM</td>
<td>O3, PM10, NO2</td>
<td>Hourly</td>
<td>-109.788/41.751</td>
<td></td>
</tr>
<tr>
<td>Sweetwater</td>
<td>Wamsutter</td>
<td>SPM</td>
<td>O3, PM10, NO2</td>
<td>Hourly</td>
<td>-108.024/41.678</td>
<td></td>
</tr>
<tr>
<td>Fremont</td>
<td>South Pass</td>
<td>SPM</td>
<td>O3, PM10, NO2</td>
<td>Hourly</td>
<td>-108.720/42.528</td>
<td></td>
</tr>
<tr>
<td>Uinta</td>
<td>Murphy Ridge</td>
<td>SPM</td>
<td>O3, PM10, NO2</td>
<td>Hourly</td>
<td>-111.042/41.369</td>
<td></td>
</tr>
<tr>
<td>Teton</td>
<td>Jackson</td>
<td>SLAMS</td>
<td>PM10, PM2.5</td>
<td>1/3</td>
<td>-110.79799/43.45776</td>
<td></td>
</tr>
<tr>
<td>Sweetwater</td>
<td>Rock Springs</td>
<td>SLAMS</td>
<td>PM10, PM2.5</td>
<td>1/3</td>
<td>-109.22013/41.59259</td>
<td></td>
</tr>
<tr>
<td>Laramie</td>
<td>Cheyenne</td>
<td>NCore</td>
<td>O3 NO NO2 SO2 PM10 PM2.5</td>
<td>Hourly for all expect 1/3 for PM2.5</td>
<td>-104.77842/41.18235</td>
<td></td>
</tr>
</tbody>
</table>

### 3.3.2 Criteria Air Pollutants

Criteria air pollutants are those for which national concentration standards have been established. If the air quality in a geographic area meets the NAAQS, it is designated an attainment area; areas that do not meet the NAAQS are designated nonattainment areas and must develop comprehensive state plans to reduce pollutant concentrations to a safe level.

Attainment/nonattainment status is determined separately for each criteria pollutant. Five of the six criteria pollutants for which the EPA has established NAAQS are:

- **Carbon monoxide (CO):** CO is an odorless, colorless gas formed during combustion of any carbon-based fuel, such as during the operation of engines, fireplaces, and furnaces. Because carbon monoxide data are generally collected only in urban areas where automobile traffic levels are high, recent data are often unavailable for rural areas.

- **Nitrogen dioxide (NO2):** NO2 is a highly reactive compound formed at high temperatures during fossil fuel combustion. During combustion, nitrogen monoxide (NO) is released into the air which reacts with oxygen in the atmosphere to form NO2. NO plus NO2 forms a mixture of nitrogen gases, collectively called oxides of nitrogen (NOx). NOx emissions can convert to ammonium nitrate particles and nitric acid, which can cause visibility impairment and atmospheric deposition. NOx can contribute to “brown cloud” conditions and ozone formation, and can convert to ammonium (NH4), nitrate particles (NO3), and nitric acid (HNO3). Internal combustion engines are a major source of NOx emissions.
• **Ozone**: Ozone is a gaseous pollutant that is not emitted directly into the atmosphere but is formed in the atmosphere from complex photochemical reactions involving NOx and reactive volatile organic compounds (VOCs). Common sources of VOCs include automotive and heavy equipment emissions, paints and varnishes, oil and gas operations, and wildfires. Ozone is a strong oxidizing chemical that can burn the lungs and eyes and damage plants. Ozone is a severe respiratory irritant at concentrations in excess of the federal standards.

• **Particulate matter (PM)**: PM is small particles suspended in the air that settle to the ground slowly and may be re-suspended if disturbed. Ambient air particulate matter standards are based on the size of the particle. The two types of particulate matter are:
  - PM$_{10}$ (particles with diameters less than 10 micrometers): small enough to be inhaled and capable of causing adverse health effects.
  - PM$_{2.5}$ (particles with diameters less than 2.5 micrometers): small enough to be drawn deeply into the lungs and cause serious health problems. These particles are a primary cause of visibility impairment.

• **Sulfur dioxide (SO$_2$) and sulfates (SO$_4$)**: SO$_2$ and SO$_4$ form during combustion from trace levels of sulfur in coal or diesel fuel. SO$_2$ also participates in chemical reactions and can form sulfates and sulfuric acid in the atmosphere.

The Wyoming DEQ has also established WAAQS, which are state-specific air quality standards for criteria pollutants. The standards and relevant averaging periods are summarized below:

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Averaging Time</th>
<th>National Ambient Air Quality Standards (NAAQS)</th>
<th>Wyoming Ambient Air Quality Standards (WAAQS)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Primary (ppm) (ppb) (ug/m$^3$)</td>
<td>Primary (ppm) (ppb) (ug/m$^3$)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(ppm)</td>
<td>(ppb)</td>
</tr>
<tr>
<td>Carbon Monoxide</td>
<td>1 hour</td>
<td>35 (a)</td>
<td>35,000</td>
</tr>
<tr>
<td></td>
<td>8 hour</td>
<td>9 (a)</td>
<td>9,000</td>
</tr>
<tr>
<td>Lead</td>
<td>Rolling 3-month</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Nitrogen Dioxide</td>
<td>1 hour</td>
<td>0.1</td>
<td>100 (b)</td>
</tr>
<tr>
<td></td>
<td>Annual (Arithmetic Mean)</td>
<td>0.053</td>
<td>53</td>
</tr>
<tr>
<td>PM$_{10}$</td>
<td>24 hour</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td></td>
<td>Annual (Arithmetic Mean)</td>
<td>None</td>
<td>---</td>
</tr>
<tr>
<td>PM$_{2.5}$</td>
<td>24 hour</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td></td>
<td>Annual (Arithmetic Mean)</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Ozone</td>
<td>8 hour</td>
<td>0.070 (f)</td>
<td>70</td>
</tr>
<tr>
<td>Sulfur Dioxide</td>
<td>1 hour</td>
<td>0.075</td>
<td>75 (g)</td>
</tr>
<tr>
<td>Hydrogen Sulfide</td>
<td>1/2 hour average</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td></td>
<td>1/2 hour average</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>

Note: **Bold** indicates the standard as written in the corresponding regulation. Other values are conversions.

(a) Not to be exceeded more than once per year.

(b) To attain this standard, the 3-year average of the 98th percentile of the daily maximum 1-hour average at each monitor within an area must not exceed 100 ppb (effective January 22, 2010).

(c) Not to be exceeded more than once per year on average over 3 years.

(d) To attain this standard, the 3-year average of the 98th percentile of 24-hour concentrations at each population-oriented monitor within an area must not exceed 35 µg/m$^3$ (effective December 17, 2006).
### Ozone

Ozone is formed in the lower atmosphere by a series of reactions involving sunlight and precursor emissions of nitrous oxide (NOX) and Volatile Organic Compounds (VOCs). Ozone and its precursors can be transported both into and out of the analysis region.

As mentioned above, the UGRB has been designated as a marginal nonattainment area for ozone. The designated nonattainment area includes Sublette County and portions of Lincoln and Sweetwater counties. This designation was based on ozone data for 2008 through 2010. Compliance with the 8-hour ozone NAAQS is based on the ozone “design value,” which is defined as the 3-year average of the annual fourth-highest observed 8-hour average ozone concentration. An ozone design value is first calculated for each monitoring site within a given area. The area-wide ozone design value is then defined as the maximum over all sites within the area. If the design value exceeds the 8-hour ozone NAAQS of 70 parts per billion (ppb), the area is designated nonattainment.

Ozone is currently measured at several sites within southwestern Wyoming. All sites have sufficient data to calculate one or more 3-year design values. Ozone design values for each of these sites, for three recent 3-year design value periods (2013–2015, 2014-2016, and 2015-2017), are listed in Error! Reference source not found.the table, below. The general data trend in design values for all sites is a decrease from the 2012-2014 to the 2014-2016 design period, with an increase at all sites during the 2015-2017 design period. The figure after the table, below, displays 2010-2017 hourly ozone data from various Wyoming ozone monitors. This data shows no increasing or decreasing trend over the period.

### Ozone Design Values for Ozone Monitoring Sites in Wyoming Compared with the NAAQS

<table>
<thead>
<tr>
<th>Site Name</th>
<th>ID</th>
<th>County</th>
<th>Ozone Design Value (ppb)</th>
<th>NAAQS (ppb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Big Piney</td>
<td>56-035-0700</td>
<td>Sublette</td>
<td>61</td>
<td>61</td>
</tr>
<tr>
<td>Boulder</td>
<td>56-035-0099</td>
<td>Sublette</td>
<td>58</td>
<td>58</td>
</tr>
<tr>
<td>Cheyenne NCore</td>
<td>56-021-0001</td>
<td>Laramie</td>
<td>65</td>
<td>63</td>
</tr>
<tr>
<td>Daniel South</td>
<td>56-035-0100</td>
<td>Sublette</td>
<td>62</td>
<td>62</td>
</tr>
<tr>
<td>Juel Spring</td>
<td>56-035-0700</td>
<td>Sublette</td>
<td>62</td>
<td>66</td>
</tr>
<tr>
<td>Moxa</td>
<td>56-037-0300</td>
<td>Sweetwater</td>
<td>67</td>
<td>66</td>
</tr>
<tr>
<td>Murphy Ridge</td>
<td>56-041-0101</td>
<td>Uinta</td>
<td>63</td>
<td>61</td>
</tr>
<tr>
<td>Pinedale</td>
<td>56-035-0101</td>
<td>Sublette</td>
<td>59</td>
<td>58</td>
</tr>
<tr>
<td>Thunder Basin</td>
<td>56-005-0123</td>
<td>Campbell</td>
<td>59</td>
<td>58</td>
</tr>
<tr>
<td>Wamsutter</td>
<td>56-037-0020</td>
<td>Sweetwater</td>
<td>61</td>
<td>55</td>
</tr>
</tbody>
</table>

Source: REF 1018

NAAQS National Ambient Air Quality Standards
ppb parts per billion
Ozone Nonattainment Designation

On April 30, 2012, the EPA formally recognized Wyoming’s UGRB as an ozone nonattainment area with a marginal classification. As a result of the nonattainment designation, the BLM must comply with General Conformity regulations in 40 CFR 93 Subpart B and Chapter 8, Section 3 of the Wyoming Air Quality Standards and Regulations (WAQSR). Per these regulations, the BLM must demonstrate that new actions occurring within the nonattainment area will conform with the Wyoming State Implementation Plan (SIP) by demonstrating that they will not: (1) cause or contribute to a new violation of the ozone standard; (2) interfere with provisions in the SIP for maintenance of any standard; (3) increase the frequency or severity of any existing violation; or (4) delay timely attainment of any standard or any required interim emissions reductions or other milestone. The BLM must first conduct an applicability analysis to determine if this Federal action will require a conformity determination. A conformity determination must be completed for a Federal action if the total of direct and indirect emissions from the proposed project exceeds the de minimis levels specified in 40 CFR 93.153(b) and WAQSR Chapter 8, Section 3. For a marginal nonattainment area, the de minimis threshold is 100 tons/year of NOx or VOCs (the precursor pollutants that form ozone in the atmosphere). Federal actions estimated to have an annual net emissions increase less than the de minimis levels are not required to demonstrate conformity under the General Conformity regulations.

In accordance with the Federal and State Conformity regulations, the General Conformity requirement does not apply to actions where the emissions are not reasonably foreseeable such as lease sales made on a broad scale followed by exploration and development plans. There are no direct effects from the proposed oil and gas lease sale because it is primarily an administrative action that only conveys the mineral rights to the potential lessee. Subsequent development proposals by lease holders will require to submit plans for any exploration or development that may occur and a site specific EA or EIS would be prepared to identify mitigation measures necessary to avoid undue degradation to the environment prior to approval any development activities. General Conformity is addressed at the proposal stage when emission generating activities are reasonably foreseeable and can be quantified. Sixty-eight (68) parcels, whole or in part, are located within this non-attainment area (307-322, 325-331, 378, 668-673, and 677-686).
On August 27, 2015, the EPA published a Federal Register Notice finding that the Upper Green is attaining the ozone standard as of July 20, 2015 attainment date (see http://www.gpo.gov/fdsys/pkg/FR-2015-08-27/pdf/2015-21196.pdf). Formal re-designation of the area to attainment has not yet occurred.
### 3.3.4 Nitrogen Dioxide

Nitrogen dioxide (NO₂) is currently measured at several monitoring sites across Wyoming. Relevant NAAQS for NO₂ include (1) the 1-hour NO₂ NAAQS, which requires the 3-year average of the 98th percentile daily maximum 1-hour NO₂ concentration to be less than 100 ppb; and (2) the annual NO₂ NAAQS, which requires the annual average NO₂ concentration to be less than 53 ppb. One-hour NO₂ design values for each of these sites, for 2013–2015, and 2014–2016, and 2015-2017 are listed in the table, below. Data from all sites show design values well below the NAAQS.

<table>
<thead>
<tr>
<th>Site Name</th>
<th>ID</th>
<th>County</th>
<th>3-Year Average 98th Percentile 1-Hour NO₂ (ppb)</th>
<th>NAAQS (ppb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Big Piney</td>
<td>56-035-0700</td>
<td>Sublette</td>
<td>--</td>
<td>8</td>
</tr>
<tr>
<td>Boulder</td>
<td>56-035-0099</td>
<td>Sublette</td>
<td>14</td>
<td>12</td>
</tr>
<tr>
<td>Cheyenne NCore</td>
<td>56-021-0001</td>
<td>Laramie</td>
<td>36</td>
<td>35</td>
</tr>
<tr>
<td>Daniel South</td>
<td>56-035-0100</td>
<td>Sublette</td>
<td>--</td>
<td>3</td>
</tr>
<tr>
<td>Juel Spring</td>
<td>56-035-0700</td>
<td>Sublette</td>
<td>11</td>
<td>10</td>
</tr>
<tr>
<td>Moxa</td>
<td>56-037-0300</td>
<td>Sweetwater</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>Murphy Ridge</td>
<td>56-041-0101</td>
<td>Uinta</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>Pinedale</td>
<td>56-035-0101</td>
<td>Sublette</td>
<td>19</td>
<td>20</td>
</tr>
<tr>
<td>Thunder Basin</td>
<td>56-005-0123</td>
<td>Campbell</td>
<td>9</td>
<td>8</td>
</tr>
<tr>
<td>Wamsutter</td>
<td>56-037-0020</td>
<td>Sweetwater</td>
<td>35</td>
<td>32</td>
</tr>
</tbody>
</table>

Source: REF 1018

NAAQS National Ambient Air Quality Standards
NO₂ nitrogen dioxide
ppb parts per billion

### 3.3.5 Sulfur Dioxide

Sulfur dioxide (SO₂) is currently measured at the Moxa site (Sweetwater County) and the Cheyenne NCore site (Laramie County). This site was established in 2010. The corresponding SO₂ design values are 17, 17 and 18 ppb for 2013–2015, 2014-2016, and 2015-2017, respectively, as listed in the table, below. The SO₂ design values are well below the NAAQS.

<table>
<thead>
<tr>
<th>Site Name</th>
<th>ID</th>
<th>County</th>
<th>3-Year Average 99th Percentile 1-Hour SO₂ (ppb)</th>
<th>NAAQS (ppb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Moxa</td>
<td>56-037-0300</td>
<td>Sweetwater</td>
<td>18</td>
<td>21</td>
</tr>
<tr>
<td>Cheyenne NCore</td>
<td>56-021-0100</td>
<td>Laramie</td>
<td>10</td>
<td>9</td>
</tr>
</tbody>
</table>

Source: REF 1018

NAAQS National Ambient Air Quality Standards
ppb parts per billion
SO₂ sulfur dioxide

### 3.3.6 Carbon Monoxide

Carbon monoxide (CO) is not routinely monitored within the region. CO was measured at the Murphy Ridge site (in Uinta County) during 2008. Based on these measurements, the daily maximum 1-hour CO value was 870 ppb (0.87 parts per million [ppm]) and the daily maximum 8-hour average CO value was 690 ppb (0.69 ppm). These values are well below the NAAQS limits of 35,000 and 9,000 ppb (35 and 9 ppm), respectively. Therefore, CO does not appear to be a pollutant of concern for the region. Note, however, that CO monitoring is limited to one site.
The 2011 National Emission Inventory indicates that CO emissions in the region are primarily from area (mostly oil and gas-related) and on-road mobile sources. CO concentrations are expected to be greatest near human-made CO sources such as oil and gas development areas, population centers, and roadways, but CO is not a primary air quality concern for the region.

3.3.7  Lead

Lead is not routinely monitored and is not a primary air quality concern for the region.

3.3.8  Particulate Matter

Particulate matter, PM$_{10}$ and PM$_{2.5}$, are pollutants of concern within the region. At the regional scale, it is expected that fugitive dust sources are the dominant contributors to PM$_{10}$ and PM$_{2.5}$ concentrations. Fugitive dust is likely to occur naturally across the region, especially during high-wind events. Post-burn vegetative conditions associated with wildfires are also sources of fugitive dust. At the local level, concentrations are expected to be highest near towns, unpaved roads that experience high volumes of traffic, areas with depleted vegetative cover, and areas downwind of human-made sources of precursor emissions such as SO$_2$ and NO$_2$ that may react to form secondary PM$_{2.5}$.

Recent PM$_{10}$ data are available for six monitoring sites within the region. Under the PM$_{10}$ NAAQS, the maximum 24-hour average PM$_{10}$ concentration cannot exceed 150 micrograms per cubic meter ($\mu$g/m$^3$) more than once per year on average over 3 years. WDEQ also requires the annual PM$_{10}$ concentration to be less than 50 $\mu$g/m$^3$. Maximum 24-hour PM$_{10}$ concentrations for monitoring sites within the area are listed in the table, below:

Table: Maximum 24-Hour PM$_{10}$ Concentrations for Monitoring Sites in Wyoming Compared with the NAAQS

<table>
<thead>
<tr>
<th>Site Name</th>
<th>ID</th>
<th>County</th>
<th>Maximum 24-Hour Average PM$_{10}$ ($\mu$g/m$^3$)</th>
<th>NAAQS ($\mu$g/m$^3$)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>2014</td>
<td>2015</td>
</tr>
<tr>
<td>Boulder</td>
<td>56-035-0099</td>
<td>Sublette</td>
<td>31</td>
<td>40</td>
</tr>
<tr>
<td>Cheyenne NCore</td>
<td>56-021-0100</td>
<td>Laramie</td>
<td>34</td>
<td>78</td>
</tr>
<tr>
<td>Daniel South</td>
<td>56-035-0100</td>
<td>Sublette</td>
<td>26</td>
<td>36</td>
</tr>
<tr>
<td>Gillette</td>
<td>56-005-1002</td>
<td>Campbell</td>
<td>25</td>
<td>39</td>
</tr>
<tr>
<td>Lander</td>
<td>56-013-1003</td>
<td>Fremont</td>
<td>62</td>
<td>53</td>
</tr>
<tr>
<td>Moxa</td>
<td>56-037-0300</td>
<td>Sweetwater</td>
<td>67</td>
<td>53</td>
</tr>
<tr>
<td>Murphy Ridge</td>
<td>56-041-0101</td>
<td>Uinta</td>
<td>39</td>
<td>60</td>
</tr>
<tr>
<td>Rock Springs</td>
<td>56-037-0007</td>
<td>Sweetwater</td>
<td>39</td>
<td>54</td>
</tr>
<tr>
<td>Wamsutter</td>
<td>56-037-0020</td>
<td>Sweetwater</td>
<td>41</td>
<td>47</td>
</tr>
</tbody>
</table>

Source: REF 1018

NAAQS  National Ambient Air Quality Standards
PM$_{10}$  particulate matter less than 10 microns in diameter
$\mu$g/m$^3$  micrograms per cubic meter

PM$_{10}$ concentrations are often heavily influenced by wildfire activity in the region as well as transport from areas outside of Wyoming. Therefore, while there are no violations of the PM$_{10}$ NAAQS, PM$_{10}$ is an air quality concern for the region.

Recent PM$_{2.5}$ data are available for two monitoring sites within the region. The NAAQS for PM$_{2.5}$ include (1) the 24-hour PM$_{2.5}$ NAAQS, which requires the 3-year average of the 98th percentile 24-hour average PM$_{2.5}$ concentration to be less than 35 $\mu$g/m$^3$; and (2) the annual PM$_{2.5}$ NAAQS, which requires the 3-year average of the annual average PM$_{2.5}$ concentration to be less than 12 $\mu$g/m$^3$. The 24-hour PM$_{2.5}$ design values are listed in the table, below, as are the annual PM$_{2.5}$ design values in the subsequent table.

Table: 24-Hour PM$_{2.5}$ Design Values for Monitoring Sites in WY Compared with the NAAQS

<table>
<thead>
<tr>
<th>Site Name</th>
<th>ID</th>
<th>County</th>
<th>3-Year Average 98th Percentile 24-Hour PM$_{2.5}$ ($\mu$g/m$^3$) (2015-2017)</th>
<th>NAAQS ($\mu$g/m$^3$)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cheyenne NCore</td>
<td>56-021-0100</td>
<td>Laramie</td>
<td>14</td>
<td>35</td>
</tr>
<tr>
<td>Lander</td>
<td>56-013-1003</td>
<td>Fremont</td>
<td>23</td>
<td>35</td>
</tr>
<tr>
<td>Pinedale</td>
<td>56-035-0101</td>
<td>Sublette</td>
<td>16</td>
<td>35</td>
</tr>
<tr>
<td>Rock Springs</td>
<td>56-037-0007</td>
<td>Sweetwater</td>
<td>19</td>
<td>35</td>
</tr>
</tbody>
</table>
Table: Annual PM$_{2.5}$ Design Values for Monitoring Sites in Wyoming Compared with the NAAQS

<table>
<thead>
<tr>
<th>Site Name</th>
<th>ID</th>
<th>County</th>
<th>3-Year Average 98th Percentile 24-Hour PM$_{2.5}$ (µg/m$^3$) (2015-2017)</th>
<th>NAAQS (µg/m$^3$)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cheyenne NCore</td>
<td>56-021-0100</td>
<td>Laramie</td>
<td>4.1</td>
<td>12</td>
</tr>
<tr>
<td>Lander</td>
<td>56-013-1003</td>
<td>Fremont</td>
<td>6.8</td>
<td>12</td>
</tr>
<tr>
<td>Pinedale</td>
<td>56-035-0101</td>
<td>Sublette</td>
<td>5.1</td>
<td>12</td>
</tr>
<tr>
<td>Rock Springs</td>
<td>56-037-0007</td>
<td>Sweetwater</td>
<td>5.1</td>
<td>12</td>
</tr>
</tbody>
</table>

The 24-hour PM$_{2.5}$ design values are below the NAAQS for both sites. The annual PM$_{2.5}$ design values are also below the NAAQS for both sites.

3.3.9 Greenhouse Gas Emissions and Climate

The HDD is located in a semi-arid, mid-continental climate regime typified by dry, windy conditions, limited rainfall, and long, cold winters (Trewartha and Horn 1980). The HDD region is subject to strong, gusty winds that are often accompanied by snow and blizzard conditions during the winter. Winds frequently originate from the west to northwest, and the mean annual wind speed is 9 miles per hour but can have sustained winds greater than 40 miles per hour.

The climate in the HPD is generally temperate and is 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. Wind speed and direction are highly variable because of the effect of local topography in the planning area. Wind speeds are generally strong and gusts above 40 miles per hour are not unusual.

The climate in the WRBBD is designated as a combination of Intermountain Semi-Desert and Southern Rocky Mountain Steppe. Summers are generally short and hot and winters long and cold. Precipitation has historically been low, though greater at higher elevations, and distributed across the year, with the exception of the drier summer months. Wind speeds are variable but strong.

In general, wind strength and frequency affects dispersion of noises, odors, and transport of dust and other airborne elements. Therefore, Wyoming’s strong winds increase the potential for atmospheric dispersion of pollutants.

Climate change refers to any significant change in the measures of climate lasting for an extended period of time. In other words, climate change includes major changes in temperature, precipitation, or wind patterns, among other effects, that occur over several decades or longer. “Global warming” refers to the recent and ongoing rise in global average temperature near Earth's surface. It is caused mostly by increasing concentrations of greenhouse gases in the atmosphere. Global warming is causing climate patterns to change. However, global warming itself represents only one aspect of climate change. Climate is both a driving force and limiting factor for ecological, biological, and hydrological processes, and has great potential to influence resource management.

It is accepted within the scientific community that global temperatures have risen at an increased rate and the likely cause is gases that trap heat in the atmosphere, referred to as greenhouse gases (GHGs). The Intergovernmental Panel on Climate Change (IPCC, 2007) concluded that “warming of the climate system is unequivocal” and “most of the observed increase in global average temperatures since the mid-20th century is very likely due to the observed increase in anthropogenic GHG concentrations.” Extensive research and development efforts are underway in the field of Carbon Capture and Sequestration (CCS) technology, which could help direct management strategies in the future. The IPCC has identified a target worldwide “carbon budget” to estimate the amount of CO$_2$ the world can emit while still having a likely chance of limiting global temperature rise to 2°C above pre-industrial levels. The international community estimates this budget to be 1 trillion tonnes of carbon and also acknowledges that varying amounts of this budget have already been consumed (IPCC, 2014).

In 2009, based primarily on the scientific assessments of the USGCRP, the National Research Council, and the IPCC, the EPA issued a finding that the changes in our climate caused by elevated concentrations of greenhouse gases in the atmosphere are reasonably anticipated to endanger the public health and public welfare of current and future generations.
GHGs are composed of molecules that absorb and re-radiate infrared electromagnetic radiation. When present in the atmosphere the gas contributes to the greenhouse effect. Some GHGs such as CO2 occur naturally and are emitted to the atmosphere through natural processes and human activities. Other GHGs (e.g., fluorinated gases) are created and emitted solely through human activities. The primary GHGs 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. Fluorinated gases are powerful GHGs that are emitted from a variety of industrial processes including production of refrigeration/cooling systems, foams and aerosols. Fluorinated gases are not primary to the activities authorized by the BLM and will not be discussed further in this document.

GHGs are often presented using the unit of Metric Tons of CO2 equivalent (MT CO2e) or Million Metric Tons (MMT CO2e), a metric to express the impact of each different greenhouse gas in terms of the amount of CO2 making it possible to express greenhouse gases as a single number. For example, 1 ton of methane would be equal to 28 tons of CO2 equivalent, because it has a global warming potential (GWP) 28 times that of CO2. As defined by EPA, the GWP provides “ratio of the time-integrated radiative forcing from the instantaneous release of one kilogram of a trace substance relative to that of one kilogram of CO2.” The GWP of greenhouse gas is used to compare global impacts of different gases and used specifically to measure how much energy the emissions of one ton of gas will absorb over a given period of time (e.g. 100 years), relative to the emissions of one ton of CO2. The GWP accounts for the intensity of each GHG’s heat trapping effect and its longevity in the atmosphere. The GWP provides a method to quantify the cumulative effects of multiple GHGs released into the atmosphere by calculating carbon dioxide equivalent for the GHGs.

- Carbon dioxide (CO2), by definition, has a GWP of 1 regardless of the time period used because it is the gas being used as the reference. CO2 remains in the climate system for a very long time; CO2 emissions cause increases in the atmospheric concentrations of CO2 that will last thousands of years (EPA, 2016).
- Methane (CH4) is estimated to have a GWP of 28-36 times that of CO2 over 100 years. CH4 emitted today lasts about a decade on average, which is much less time than CO2. But CH4 also absorbs much more energy than CO2. The net effect of the shorter lifetime and higher energy absorption is reflected in the GWP. The methane GWP also accounts for some indirect effects, such as the fact that methane is a precursor to ozone, and ozone is in itself a greenhouse gas (EPA, 2016).
- Nitrous Oxide (N2O) has a GWP of 265-298 times that of CO2 for a 100-year timescale. N2O emitted today remains in the atmosphere for more than 100 years, on average (EPA, 2016).

The Center for Climate Strategies (CCS) prepared the Wyoming Greenhouse Gas Inventory and Reference Case Projection 1990-2020 (Inventory) for the WDEQ through an effort of the Western Regional Air Partnership (WRAP). This inventory report presents a preliminary draft 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 a starting point for revising the initial estimates as improvements to data sources and assumptions are identified.

The CCS 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 U.S. 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.

According to EPA’s Inventory of U.S. Greenhouse Gas Emissions and Sinks: 1990-2016 Executive Summary, on a global basis “approximately 32,294 MMT of CO2 were added to the atmosphere through the combustion of fossil fuels in 2015, of which the United States accounted for approximately 15 percent. Within the United States, fossil fuel combustion accounted for 93.5 percent of CO2 emissions in 2016 (EPA, 2018). Between 1990 and 2016, CO2 emissions from fossil fuel combustion increased from 4,740.3 MMT CO2 Eq. to 4,966.0 MMT CO2 Eq., a 4.8 percent total increase over the twenty-seven-year period. Conversely, CO2 emissions from fossil fuel combustion decreased by 780.9 MMT CO2 Eq. from 2005 levels, a decrease of approximately 13.6 percent between 2005 and 2016. From 2015 to 2016, these emissions decreased by 83.2 MMT CO2 Eq. (1.6 percent). In 2016, total gross U.S. greenhouse gas emissions were 6,511.3 million metric tons (MMT) of CO2 Eq. Total U.S.
emissions have increased by 2.4 percent from 1990 to 2016, and emissions decreased from 2015 to 2016 by 1.9 percent (126.8 MMT CO₂ Eq.). The decrease in total greenhouse gas emissions between 2015 and 2016 was driven in large part by a decrease in CO₂ emissions from fossil fuel combustion. The decrease in CO₂ emissions from fossil fuel combustion was a result of multiple factors, including:

(1) substitution from coal to natural gas and other non-fossil energy sources in the electric power sector; and
(2) warmer winter conditions in 2016 resulting in a decreased demand for heating fuel in the residential and commercial sectors.

Relative to 1990, the baseline for this Inventory, gross emissions in 2016 are higher by 2.4 percent, down from a high of 15.7 percent above 1990 levels in 2007. Overall, net emissions in 2016 were 11.1 percent below 2005 levels.” (pg ES-10)

Global mean surface temperatures have increased nearly 1.8°F from 1890 to 2006. Models indicate that average temperature changes are likely to be greater in the Northern Hemisphere. Northern latitudes (above 24°N) have exhibited temperature increases of nearly 2.1°F since 1900, with nearly a 1.8°F increase since 1970 alone. Temperatures in western Wyoming are expected to increase by 0.25 to 0.40 degrees Fahrenheit per decade while temperatures in surrounding locations in Utah, Wyoming, and Colorado are expected to increase by 0.40 to 1.2 degrees Fahrenheit per decade (see figure, below). Precipitation across western Wyoming is expected to decrease by 0.1 to 0.6 inches per decade with the largest decrease expected in southwestern Wyoming. The eastern portions of the state are expected to get warmer and wetter.

Long-term Temperature (top) and Precipitation (bottom) Trends in the United States from NOAA Climate Prediction Center
The next figure, taken from the IPCC’s Fourth Assessment Report, indicates varying responses of the natural world to increasing temperatures as a result of increasing global temperatures.

Examples of Impacts Associated with Global Average Temperature Change

(Impacts will vary by extent of adaptation, rate of temperature change and socio-economic pathway).

A number of the existing authorized activities within the BLM-Wyoming field offices generate GHG emissions. Oil and gas development activities can generate CO₂ and NH₄ (during processing). Carbon dioxide emissions result from the use of combustion engines for OHV and other recreational activities. Wildland fires also are a source of CO₂ and other GHG emissions, and livestock grazing is a potential source of methane. Other activities 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 snowmelt.

Consistent with current guidance, this EA includes a qualitative and quantitative analysis of possible direct, indirect and cumulative greenhouse gas emissions that could occur as a result of reasonably foreseeable oil and gas development forecasts developed for each RMP. Additional information about potential emissions would also be available and calculated as part of subsequent site-specific reviews at the APD stage, where necessary.

### 3.4 Geology and Mineral Resources

Two parcels were nominated in the WRBBD which have active and approved mines within the parcel boundaries.

<table>
<thead>
<tr>
<th>Office</th>
<th>WY-183Q-</th>
<th>Mine Type</th>
<th>Acres in Mine Plan</th>
<th>Acres Outside Mine Plan</th>
<th>Total Acres</th>
</tr>
</thead>
<tbody>
<tr>
<td>WFO</td>
<td>278</td>
<td>Bentonite</td>
<td>160.00</td>
<td>280.00</td>
<td>440.00</td>
</tr>
<tr>
<td>WFO</td>
<td>303</td>
<td>Sand &amp; Gravel</td>
<td>40.00</td>
<td>120.00</td>
<td>160.00</td>
</tr>
<tr>
<td>TOTAL</td>
<td></td>
<td></td>
<td>200.00</td>
<td>400.00</td>
<td>600.00</td>
</tr>
</tbody>
</table>

In the RSFO, there are 10 parcels that were nominated which are within active coal mines. These parcels include (136, 137, 138, 166, 167, 170, 177-179). All portions of these parcels are deferred under the proposed action due to unresolved conflicts. Parcel
291, also in the RSFO, has an active mining claim within the parcel boundaries. Parcels 278, 291 and 303 are proposed to be offered.

3.4.1 Master Leasing Plans (MLPs)

Two parcels in the WFO are located partially within the Fifteen Mile MLP, 625 and 639, totaling 1,280 non-contiguous acres. Referencing management decision 2038, even though the 196.00 acres portion of parcel WY-184Q-625 within the MLP is less than 640 acres, offering the 196.00 acres will protect the federal mineral estate from drainage. The portions of parcel 625 within the MLP, both adjoin other federal oil and gas leases on three boundaries.

Parcel WY-184Q-639 does not meet the minimum acreage size for an MLP parcel, is not located within an area currently under development, and is not in peril of drainage.

Fifteen Mile MLP Parcels

Greater Little Mountain
The Greater Little Mountain (GLM) (784,647.37 acres) area was nominated as an MLP analysis area under WO Instruction Memorandum 2010-117. While this IM has since been superceded, the area is of high interest to the general public, and various stakeholders. Of the parcels that are available for lease, 139 parcels were nominated in the GLM area comprising approximately 223,978 acres. Of these 139 parcels, 11 whole parcels and portions of 8 more were deleted because they are in areas closed to oil and gas. Under the proposed action, all of the parcels that are not in the checkerboard area of the GLM are deferred from sale pending completion of the RS RMP revision due to unresolved conflicts involving the various resource values including but not limited to wildlife and recreation. Parcels immediately adjacent to the southeastern border of the GLM area have also been deferred due to the same potential for unresolved conflicts.
### 3.4.2 Designated Development Areas (DDAs)

Parcels 606, -607, -608, -609, and -612 in the WFO are within designated Oil and Gas Management Areas as defined by the Bighorn Basin RMP.

Management decision record 2023 directs the delineation of the Oil and Gas Management Areas around existing intensively-developed fields, applying a 2-mile buffer from the outer boundary of the existing field, and adding enhanced oil recovery areas identified by the Governor’s Office Enhanced Oil Recovery Institute and excluding Greater Sage-grouse PHMAs. These areas are managed primarily for oil and gas exploration and development at the same level and density as the existing development in the field. Levels and densities beyond the existing field development may require additional reclamation or compensatory offsite mitigation.

Management decision record 4074 from the Bighorn Basin RMP exempts Oil and Gas Management Areas from the discretionary big game seasonal timing limitation stipulations.

### 3.5 Soils

Soils within Wyoming are generally considered to be highly erodible from both wind and water action regardless of slope with the exception of depositional soils. Soils in Wyoming are especially dependent on vegetative cover to prevent erosion; ground cover and root systems anchor the soil, recycle nutrients, and add scarce organic matter.

Several of the parcels may contain what BLM has determined to be Limited Reclamation Potential soils (See WY IM 2012-032). Work in these areas will require detailed plans to ensure that the soils can be properly reclaimed and protected during construction and production activities.

All parcels have the potential to contain slopes greater than 25%. Lease Notice No. 1 requires that Operators avoid operations on slopes greater than 25%.

Please refer to the RMP FEISs for a more detailed description of the soil resources in the planning areas.

### 3.6 Solid and Hazardous Wastes

None of the parcels are known to contain open sources of solid waste. Historical management of split estate lands is unknown but unlikely to contain reportable levels of hazardous waste; these lands may have been impacted through normal everyday living including but not limited to spills of oils, paints, etc.

Several parcels have been previously leased and 10 contain well bores that have been plugged and abandoned. Sixteen parcels contain open well bores that have not been plugged. These parcels likely contain previously approved for abandonment, oilfield materials in the subsurface. These parcels could also contain materials that were disposed of without authorization.

BLM will work with the existing liable partner, and the new lessee as allowed by regulation, to ensure that all existing oil field waste is properly addressed.

Should a parcel be leased and developed, generation and temporary storage of waste materials (solid and liquid) would likely occur. Waste materials would be managed in accordance with Onshore Oil and Gas Order Nos. 1 & 7, the Resource Conservation and Recovery Act (RCRA), applicable WDEQ regulations, and Wyoming Oil and Gas Conservation Commission (WOGCC) rules. Fluid handling would be evaluated at the development stage and fluids associated with any subsequent drilling, completions and/or production would either be treated, evaporated, or transferred to a WDEQ-authorized commercial treatment, storage, or disposal facility; solids would be treated on site or transferred to a WDEQ-authorized facility.

### 3.7 Water Resources

Surface water hydrology within the area is typically influenced by geology, soil characteristics, precipitation and vegetation. Anthropogenic factors that currently affect surface water resources include livestock grazing management, private, commercial and industrial development, recreational use, drought, and vegetation control treatments. Based on best available data, ten parcels intersect major rivers in WY including the Bear River in the KFO, the Powder and Belle Fourche rivers in the BFO, the Southfork Powder River in the CFO and the North Platte River/Seminoe Reservoir in the RFO. Several parcels, as shown in attachment 5.2.1 are also within 500’ of perennial surface waters, springs, water wells, and non-coalbed related reservoirs in the BFO and one parcel in the RSFO may also contain known riparian habitats (parcel 324).
Groundwater hydrology within the area is influenced by geology and recharge rates. Groundwater quality and quantity can be influenced by precipitation, water supply wells and various disposal activities. Groundwater quality across the applicable field offices varies with depth from potable waters with low total dissolved solids (TDS) to highly saline, non-potable sources. Most of the groundwater in Wyoming is used for industrial, domestic and livestock/irrigation purposes. The information contained in Attachment 5.6, Hydraulic Fracturing White Paper (see section entitled Operational Issues/Water Availability and Consumption Estimates) is incorporated by reference.

Several parcels contain land with private surface overlying federal minerals (i.e., split-estate). The private surface lands have or have the potential to contain private residences and associated facilities such as domestic or stock water supply wells. Lands used as rangeland can also have stock water supply wells.

Six parcels overlap either entirely, or in part, aquifer recharge areas that serve community/public water supplies. In conformance with the existing Green River RMP ROD, these areas were deleted from sale. Portions of parcels 177, 180, 218 and 220 overlap portions of an aquifer recharge area for the Town of Superior; these lands are currently available under the Green River RMP ROD but will be deferred from the Fourth Quarter sale to address concerns raised by the local government entities. Otherwise, there are no known domestic or municipal water supply sources on or in the general vicinity of the available parcels, although there may be stock, industrial supply, or monitoring wells present.

3.8 Vegetation

Please refer to the approved RMP FEISs for a more detailed description of the vegetation resources in the planning areas, including for sensitive or Threatened and/or Endangered plant species.

No parcels are known to contain sensitive or T/E plant species. Two parcels have lands that potentially are used to produce commercial crops such as corn, barley, alfalfa, and/or dry beans (536, 539) according to the National United States Department of Agriculture Cropland shapefile (2014). Several additional parcels are used for pasture/grazing lands but the vast majority are shrublands with interspersed pockets of barren areas.

Infestations of noxious weeds can have a negative impact on biodiversity and natural ecosystems. Noxious weeds affect native plant species by out-competing native vegetation for light, water and soil nutrients. Locally, regionally, and nationally noxious weeds infestations cause decreased quality of agricultural products due to high levels of competition from noxious weeds; decreased quantity of agricultural products due to noxious weed infestations; and increased costs to control and/or prevent the noxious weeds.

3.9 Livestock Grazing/Wild Horses

The proposed parcels are, in many cases, used for livestock grazing as they are located in primarily rural areas with large blocks of public domain lands. The proposed parcels could contain range improvement structures such as reservoirs, water wells, and fences.

Several of the parcels are also located within BLM Wild Horse Herd Management Areas (HMAs). See: https://www.blm.gov/programs/wild-horse-and-burro/herd-management/herd-management-areas/wyoming and the applicable RMPs. The Pinedale Field Office does not have any wild horses within the field office.

3.10 Wildlife, Fish, and Special Status Species (Plants and Animals)

3.10.1 Special Status Species

Parcels proposed for lease may contain habitat for sensitive species.

Section 7 of the Endangered Species Act (ESA) of 1973, as amended, requires that the BLM ensure that any action authorized, funded, or carried out by the BLM is not likely to jeopardize the continued existence of any federally designated Threatened or Endangered (T&E) species.

The BLM Special Status Species Policy outlined in BLM Manual 6840 and BLM-Wyoming IM WY-2010-027 (“Update of the Bureau of Land Management, Wyoming, Sensitive Species List – 2010”), is to conserve listed species and the ecosystems on which they depend, while ensuring that actions authorized or carried out by the BLM are consistent with the conservation needs of special status species and minimize the likelihood and need for federal listing under the ESA.
By BLM policy, the BLM will conference with the FWS on species proposed for federal listing where the BLM determines its actions may affect listed or candidate species. Section 7 consultation with the FWS is normally completed at the time the RMPs are revised or amended, and when determined necessary for site-specific authorizations.


3.10.2 Greater Sage-grouse

Conservation of the Greater Sage-grouse (Centrocercus urophasianus) and their habitats has been a critical contemporary land-management issue for the BLM, the public, and the BLM’s partner agencies across the West.

Greater Sage-grouse currently occupy approximately about one-half of their historic distribution. On October 2, 2015, the U.S. Fish and Wildlife Service (FWS) published its finding that listing of Greater Sage-grouse under the Endangered Species Act of 1973 was not warranted. The FWS’s finding was based, in part, on the conservation strategies developed in Wyoming and other states which led the FWS to conclude that “the primary threats to greater sage-grouse have been ameliorated by conservation efforts implemented by Federal, State, and private landowners.” (80 FR 59858, dated October 2, 2015). As the FWS also acknowledged (id. at page 59882):

The key component of the Wyoming Plan is the application of State regulatory measures associated with the Wyoming Plan on all lands in Wyoming… The Federal Plans in the State incorporate the Wyoming strategy,[5] thereby ensuring implementation of the strategy on Federal land surfaces and subsurface regardless of the need for a State permit (see further discussion below). The completion of the Federal plans also facilitates greater coordination between the State and Federal agencies in implementing and monitoring the Wyoming Plan. This addition to the Wyoming Plan further increases the value of this effort in conserving sage-grouse by covering all lands in the State with a single regulatory framework to reduce affects to sage-grouse in the most important habitats in the State. Therefore, the strategy conserves sage-grouse through an effective regulatory mechanism for conservation.

For BLM-administered public lands in Wyoming, the BLM adopted the State’s Greater Sage-grouse conservation strategy by revising and amending its RMPs. The State of Wyoming’s Core Area Protection strategy for Greater Sage-grouse “is based on the identification of important habitat areas for Greater Sage-grouse and a set of actions that when taken are intended to ensure the long-term survival of Greater Sage-grouse populations in Wyoming.” (State of Wyoming Governor’s Executive Order 2015-4, at Attachment A, page 5). The important habitat areas referred to in Executive Order (EO) 2015-4 are the Core Population Areas (CPAs) designed by the State of Wyoming’s Sage-Grouse Implementation Team (SGIT). These CPAs encompass approximately 83% of the Greater Sage-grouse population within the State (see 80 FR 59882) as identified by peak male lek attendance, and were mapped by the SGIT to:

...assimilate[...] the highest sage-grouse density areas identified [in published conservation studies] as they were identified as the most productive habitats for sage-grouse in Wyoming. In addition, the mapping of Core Areas considered current and potential energy development and encapsulated areas historically low in production [citation omitted]...

Recent scientific publications[7] indicate that though strategies such as this “may be successful at limiting sage-grouse range-wide population declines, if implemented, [I] the conservation measures are not expected to reverse the declines, particularly where active oil and gas operations are present.” However, these publications also “support the conclusion that overall the Wyoming Governor’s Executive Order is helping safeguard critical sage-grouse habitats at the State-wide scale.”


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5 On August 1, 2008, the Wyoming Governor issued Executive Order 2008-2, establishing a “core population area strategy” for Greater Sage-grouse in Wyoming. This Executive Order has since been re-issued (June 2, 2011 as EO 2011-5 and, most recently, on July 29, 2015 as EO 2015-4). The BLM and State of Wyoming use identical core population area boundaries; see https://eplanning.blm.gov/epl-front-office/projects/lup/36597/130805/159604/RMP_Maint_2017-001_Sage-Grouse_Core_V4.pdf

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appropriate stipulations on all BLM mineral estate designated in the GRSG Plans as “open” for leasing. In effect, the BLM does not need to lease and develop outside of GRSG habitat management areas before considering any leasing and development within GRSG habitat. This policy should allow for the BLM to efficiently conduct lease sales and permit oil and gas development while still protecting GRSG and GRSG habitat."

Specifically, of the parcels proposed to be offered, 302 parcels are wholly or partially located in PHMA; these parcels represent approximately 365,902 acres. Two whole parcels (418 and 419), containing 1,524.21 acres, are located in Connectivity, and three whole parcels are not located in either PHMA or GHMA (394, 397 and 398 containing approximately 722.32 acres). The remainder of the parcel acreage (424,434.22 acres) are located in GHMA (whole or in part). Nine of the parcels located in GHMA, are within designated Winter Concentration Areas (parcels 310, 315, 316, 317, 326-329 and 331); acreage within these WCAs is approximately 6,014.9 acres.

Eighty-eight (88) of the parcels proposed to be offered that are within PHMA, are within the 0.6 mile No Surface Occupancy buffer and 123 of the parcels proposed to be offered that are within GHMA, are within 2 miles of an occupied lek.

On a cumulative basis, the development and implementation of the current Greater Sage-grouse conservation strategy began in 2008, there has been a 74% reduction in Federal oil and gas leases in PHMAs. Similarly, there has been a 57% reduction in the area of Federal oil and gas leases that are Held by Production (HBP) within PHMAs:

Data source: BLM GIS Data as of April 2018

The current area of Federal oil and gas leases in PHMAs is the lowest since before the BLM adopted its revised and amended RMPs designed to increase conservation of Greater Sage-grouse and their habitats. This trend has continued since the 2014-2015 revisions and amendments were finalized.

In addition, the most recent WGFD Job Completion Report (JCR) (2016) provides new information regarding sage group populations. The WGFD notes “Monitoring results suggest sage-grouse populations in Wyoming were at their lowest levels ever recorded in the mid-1990s. From 1996-2006 however, the average size of leks increased to levels not seen since the 1970s. From
2006-2013, average lek size declined, though not to levels recorded in the mid-1990s. Average lek size increased 112% from 2013 to 2016 but declined 11% in 2017.

The JCR further provides the following:

While lek counts and surveys have been conducted in Wyoming since 1948, the most consistent statewide data were not collected until the mid-1990s. The number of leks checked in Wyoming has increased markedly since 1949. However, data from the 1950s through the 1970s is unfortunately sparse and by most accounts this is the period when the most dramatic declines of grouse numbers occurred. Some lek survey/count data were collected during this period as the historical reports contain summary tables but the observation data for most individual leks are missing, making comparisons to current information difficult. Concurrent with increased monitoring effort over time, the number of grouse (males) also increased (Figure 5). The increased number of grouse counted was not necessarily a reflection of a population increase; rather it was resultant of increased monitoring efforts.

The average number of males counted/lek decreased through the 1980s and early 90s to an all time low in 1995, but then recovered to a level similar to the late 1970s in 2006 (Figure 7). Again, fluctuations in the number of grouse observed on leks are largely due to survey effort not to changes in grouse numbers exclusively, but certainly the number of male grouse counted on leks exhibited recovery between 1995 and 2006 as the average size of leks increased and is generally interpreted to reflect an increasing population. The same cannot be said for the 2006-2013 period during which the average number of cocks observed on leks declined, though not to levels documented in the mid-1990s. From 2013-2016, average lek size increased 112%. In 2017, average lek size declined 11% but remains 19% higher than the 10-year (2007-2016) average of 26.6 males/active lek.

On page 8 of the GSG JCR, WGFD provides that:

"Department personnel and others checked 89% (1,630/1,828) of the known occupied leks in 2017 (Table 1-c). Male attendance at all leks visited (counts and surveys) averaged 31.6 males per lek during spring 2016, an 11% decrease from the 35.6 males/lek observed in 2016 and 24% below the 41.7 males/lek observed in 2006. For the 10-year period (2008-2017), average male lek attendance ranged from 16.8 males/lek in 2013, the lowest average males per lek since 1997, to a high of 33 males/lek in 2008."

The proportion of active, occupied leks remained stable at 82% in 2016 and 80% in 2017.

And on page 16 of the GSG JCR, WGFD provides that:

Weather and climate have been linked to sage-grouse population trends (Heath et al. 1997, Blomberg et al 2014a/b, Caudill et al. 2014). Most of the Local Conservation Planning Area JCRs include sections on weather and sage-grouse relationships. In general, spring precipitation is positively linked to chick:hen ratios, which are in turn, linked to the following year’s lek counts of males. However, periods of prolonged cold, wet weather may have adverse effects on hatching success, plant and insect phenology and production and chick survival. Untimely late snow storms in May and early June of 2009, 2010, and 2016 likely contributed to reduced nesting success and chick survival. Efforts to quantify/qualify these effects in a predicatable fashion over meaningful scales have largely failed.

Calendar year 2012 was the hottest, driest year documented in Wyoming since record keeping began 118 years previous (NOAA 2012). The lack of spring moisture in 2012 meant little production of important food plants and insects, therefore lower chick survival and more birds than usual were likely forced to move to either higher elevation or irrigated meadows and steam courses.

While 2013 saw increased precipitation over 2012, the residual effects 2012 continued to impact sage-grouse productivity. With the exception of mid-May snowstorms, most of Wyoming experienced favorable spring conditions in 2014 and 2015. Many areas of the state experienced heavy precipitation and even flooding in May 2016, which is correlated with that year’s reduced nesting success and chick survival.

The lands contained within each of the PHMA units is assumed to contain habitats to support all seasonal life needs of the Greater Sage-grouse, and the 2015 RMP RODs account for the existence of connectivity (migration) areas and winter concentration areas. As required by these same RODs, efforts to map seasonal ranges for Greater Sage-grouse are continuing through the utilization of winter observation flights and on-going land cover mapping efforts of the USGS (Fedy et al. 2014), BLM, and the WGFD. Information regarding the status of disturbance within these PHMA units is also ongoing.

The 2017 lek count suggests the Greater Sage-grouse population remained stable near the peak of the most recent cycle peak. The previous cycle peaked at 28.0 males/active lek in 2006. (JCR, pg 201)
Maps displaying the location of the proposed oil and gas lease sale parcels in relation to PHMA and GHMA are provided in Attachment 5.4.

3.10.3 Big Game
Several of the subject parcels are located within Big Game habitats.

Big Game Migration Corridors
During initial coordination with the Wyoming Game and Fish Department (WGFD) and during preparation of this EA, the BLM and WGFD met to discuss several proposed lease sale parcels located in areas with the State of Wyoming-designated Red Desert to Hoback Mule Deer Migration Corridor (see map, below). The proposed action would offer seventeen parcels for lease within this corridor. Following the close of the public comment period, the BLM received additional comments from the WGFD requesting partial deferral of parcel 220; specifically they requested that the two portions of parcel 220 containing approximately 398 acres, within the Red Desert to Hoback corridor also be deferred. The State Director is utilizing her discretion, and deferring this portion of parcel 220. Ultimately modifying the proposed action. As a result, sixteen parcels, whole or in part, are proposed to be offered and are located within this migration corridor; these parcels are comprised of approximately 31,071.8 acres. These parcels include 218, 263, 304, 656, 661, 662, 665, 667-677, 679 and 680 and are shown in the following Map. Portions of parcels 218, 263 and 662 are located within mapped mule deer stopover habitat within this corridor. No parcels, or portions of parcels are located within known bottleneck areas.
On October 1, 2018, the State of Wyoming also designated the Baggs Mule Deer Corridor in the RFO. Following designation of this corridor, 20 parcels intersect this resource area. Comments received on the EA from the WGFD request deferral of parcels 15, 41, 42, 44, 47, 48 and 63. The State Director is utilizing her discretion, and deferring these parcels as well. Total acreage deferred from offering within the Baggs corridor is approximately 9,195.5 acres. The remaining 13 parcels intersecting this corridor and containing approximately 18,951.6 acres would be offered. The previously identified migration corridor special lease notice has been attached to all 13 parcels proposed to be offered under a modified proposed action.
Nine parcels in the HPD and 232 parcels in the HDD are within big game crucial winter range. Of these parcels, approximately 103,270.4 acres (148 parcels, whole or in part) are proposed to be offered in Pronghorn antelope crucial winter range and 85,965 acres (91 parcels, whole or in part) are proposed to be offered in Mule Deer crucial winter range. An additional 50 parcels, whole or in part, containing approximately 53,574 acres intersect Elk crucial winter range. Thirteen parcels are within big game parturition areas. (see Maps in Attachment 5.4)

Deferring portions of 220 within the Red Desert corridor removes an addition 400 acres that would be offered in Mule Deer crucial winter range. As well, deferring parcels 41, 42 and 47 would remove an additional 4,712.6 acres from being offered in Antelope crucial winter range.

Big game populations statewide are generally below objective as determined by the WGFD, and as detailed within their Job Completion Reports⁸. Conditions contributing to these below objectives are varied by herd unit but generally include ongoing energy development, poor habitat quality, and winter weather conditions.

During local coordination at the field office level, several parcels were noted by the WGFD as being within an area undergoing active vegetation treatment to improve conditions for big game; these parcels include 041-044 and 057-063. These parcels are in the Baggs herd unit area and as previously mentioned parcels 41, 42, 44 and 63 are deferred under State Director discretion at the request of WGFD due to their location in the Baggs Mule Deer Migration Corridor.

### 3.11 Cultural and Heritage Resources, Including Paleontology, Traditional Cultural Properties, and Historic Trails

All parcels addressed in this EA have the potential to contain surface and buried archaeological materials, or may be located in an area which could affect the setting of known or unknown historic sites, and/or Traditional Cultural Properties (TCPs). Once the decision is made by the lessee to develop a lease, an area-specific cultural records review would be completed to determine if there is a need for a cultural inventory of the areas of proposed surface disturbance. Generally, a cultural inventory will be required before new surface disturbance and all historic and archaeological sites that are eligible for listing in the National Register of Historic Places would be either avoided by the undertaking, have adverse effects to sites minimized or mitigated, or have the information in the sites extracted through archaeological data recovery.

One-hundred three (103) parcels in the HPD, and 86 in the HDD are subject to a CSU and/or NSO for protection of National Historic Trail remnants and/or the visual setting of the trail corridor.

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⁸ [https://wgfd.wy.gov/Hunting/Job-Completion-Reports/2016-Big-Game-Job-Completion-Reports](https://wgfd.wy.gov/Hunting/Job-Completion-Reports/2016-Big-Game-Job-Completion-Reports)
The parcels addressed in the EA also have a potential to contain vertebrate and non-vertebrate fossils. Where appropriate, applicable lease stipulations have been added to address potential paleontological resources. Post-lease development proposals would be evaluated on a case-by-case basis to determine if paleontological surveys would be required prior to surface disturbance.

Four parcels (two in NFO, one in KFO and one in PFO) are deferred under the Proposed Action pending completion of Tribal Consultation for known sensitive sites. The parcel in KFO is deferred pending an RMP amendment to address the results of previous consultation that resulted in a recommendation to not authorize any future surface disturbance in the area of a tribally sensitive site.

3.12 Recreation

Recreational use of public lands and the surrounding areas is typically for hunting, fishing, camping, sightseeing, off-highway vehicle use, and other recreational activities. Tourism is one of Wyoming’s largest industries, and much of the state’s tourism is attributable to the outdoor recreation supported by the state’s open and scenic spaces. Wildlife in Wyoming is associated with a significant amount of the recreational opportunities enjoyed across the state. According to the 2011 National Survey of Fishing, Hunting, and Wildlife-associated Recreation, more than 443,000 people participated in fishing and hunting, and an additional 518,000 people participated in some other form of wildlife watching in Wyoming in 2011 (USFWS 2011).

BLM-administered public lands in Wyoming provide habitat for wildlife and support a wide range of wildlife and non-wildlife related recreational experiences. According to the 2015 Department of Interior report, recreational use of BLM administered lands by state residents and out of state visitors was estimated to support nearly $173 million in economic activity across the state, and directly and indirectly (including induced) support 1,675 jobs and $52.3 million in labor income for Wyoming residents. Though lands nominated for leasing in this upcoming sale support only a small fraction of the recreational opportunities supported by BLM administered lands across the state, recreation-related visits in these areas contribute to the quality of life of Wyoming residents, stimulate economic activity, and support employment opportunities.

3.13 Visual Resource Management (VRM)
The BLM Visual Resource Management (VRM) Class objectives are as follows:

- **Class I**: to preserve the existing character of the landscape. The level of change to the characteristic landscape should be very low and must not attract attention.
- **Class II**: to retain the existing landscape character and the level of change to the characteristic landscape should be low. Management activities should not attract the attention of the casual observer. Changes would be required to repeat the basic elements of form, line, color, and texture found in the predominant natural features of the characteristic landscape. Modifications to a proposal would be required if the proposed change cannot be adequately mitigated to retain the character of the landscape.
- **Class III**: to partially retain existing landscape character. The level of change to the characteristic landscape should be moderate. Management activities may attract attention but should not dominate a casual observer's view. Changes should repeat the basic elements found in the predominant natural features of the characteristic landscape.
- **Class IV**: to provide for management activities which require major modification of the existing landscape character. Every attempt, however, should be made to reduce or eliminate activity impacts through careful location, minimal disturbance, and repeating the basic landscape elements.

Where applicable, VRM lease stipulations are applied to the proposed parcels in conformance with the approved RMPs. In particular, 48 parcels in the HDD and 25 in the HPD, are within VRM II areas and subject to a CSU stipulation to ensure compliance with the above-listed standard.

The WY State Director signed the decision record for the Rawlins RMP amendment for VRM on October 3, 2018. The parcels have been reviewed to ensure that all appropriate stipulations emanating from that decision have been attached. As a result, a Controlled Surface Use stipulation for protection of VRM II areas has been attached to parcels: 25, 27, 28, 33-39, 87-95, 106-113, and 118.

### 3.14 Socioeconomics, Environmental Justice, and Public Health and Safety

#### 3.14.1 Socioeconomics

Please refer to the applicable RMP FEISs for additional discussion on socioeconomics within the project area.

The counties within which the proposed parcels are located collectively make up the analysis area in which potential socioeconomic impacts of the proposed lease sale are considered. Over the last decade and half, Wyoming has experienced moderate population growth, increasing by approximately 19% between 2000 and 2015.

The local customs, culture, and history of communities within Wyoming are entwined with the lands and mineral estates administered by the BLM. People derive a wide range of values from their access, use, development, and enjoyment of natural landscapes administered by each field offices. These values contribute to the unique sense of place indicative to rural Wyoming, as well as to the social and economic well-being of households and communities across these five counties. Since BLM management actions could affect future access, use, development, and enjoyment of the natural landscapes they administer, field office land use and leasing decisions can directly affect the social, cultural, and economic well-being of surrounding towns, cities, rural areas.

Wyoming has a long history in mineral development, and typically accounts for between 2% and 3% of U.S. crude oil production (U.S. EIA, 2016). In 2016, the mining sector supported 6% of employment and 12% of labor earnings statewide (BEA 2017a, BEA2017b).

Federal oil and gas leases generate a one-time lease bonus bid, as well as annual rents during the life the lease, or until hydrocarbon production begins on the leased parcel. Nominated parcels approved for leasing are offered by the BLM quarterly at auctions starting at a minimum bid of $2.00 per acre. If parcels do not receive the minimum competitive bid, they may be leased later as noncompetitive leases that do not generate bonus bids. In general, lease sales in Wyoming are highly competitive and parcels with high potential for oil and gas production regularly command bonus bids in excess of the minimum bid.

Rent payments are equal to $1.50 an acre for the first five years and $2.00 an acre for the second five years of the lease. Typically, these leases expire after 10 years unless held by production. During this lease period, annual rental payments are paid on leased parcels until one or more wells are drilled that result in production, then the lessee begins paying annual royalties calculated as a percentage of the value of production from the parcel.

Fifty percent of federal mineral leasing revenues are to go to the Treasury Department, while approximately forty-nine percent are distributed back to the state in which the revenues were generated. In Wyoming, federal mineral receipts distributed back to the state follow a legislatively established, two-tier formula. The first tier covers total annual receipts up to $200 million and the second tier applies to receipts over $200 million per year. Based on the state’s legislatively established two-tier formula,
Wyoming allocates these revenues to public school districts, the highway and county road fund, cities and towns, the University of Wyoming, capital construction projects, and the state’s budget reserve account.

Although the economic activity associated with mineral development, and the public revenues generated from federal mineral leasing and development, play an important role in supporting the economic well-being of communities; resource development can have an adverse effect on other socioeconomic values people derive from these natural landscapes.

### 3.14.2 Environmental Justice

Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, states “each Federal agency shall make achieving environmental justice part of its mission by identifying and addressing, as appropriate, disproportionately high and adverse human health or environmental effects of its programs, policies, and activities on minority populations and low-income populations…” (Executive Order 12989). Executive Order 12898 also fully applies to Indian tribes and therefore, it is important to determine whether any Indian tribes are present in the area. The purpose of EO 12898 is to identify and address, as appropriate, disproportionately high and adverse human health or environmental effects on low-income populations, minority populations, or Indian tribes that may experience common conditions of environmental exposure or effects associated with a plan or project.

Minority populations as defined by Council on Environmental Quality (CEQ) guidance under the National Environmental Policy Act (CEQ 1997) include individuals in the following population groups: American Indian or Alaskan Native; Asian or Pacific Islander; Black, not of Hispanic origin; or Hispanic. A minority population for environmental justice consideration is identified where “a) the minority population of the affected area exceeds 50 percent or (b) the minority population percentage of the affected area is meaningfully greater…” (CEQ 1997). Additionally, “[a] minority population also exists if there is more than one minority group present and the minority percentage, as calculated by aggregating all minority persons, meets one of the above-stated thresholds” (CEQ 1997). Calculations are made to identify the “total minority” population which refers to that part of the total population which is not classified as Non-Hispanic White Only by the U.S. Census Bureau. By using this definition of minority population, the percentage is inclusive of Hispanics and multiple race categories and any other minority single race categories. This definition is most inclusive of populations that may be considered as a minority population under EO 12898.

Low-income populations are determined by the U.S. Census Bureau based upon poverty thresholds developed every year. For this project we will use the same criteria for identifying low-income populations for environmental justice considerations as is used for identifying minority populations (50 percent or “meaningfully greater”). We identify low-income population percentages and minority population percentages that are “meaningfully greater” as at least five (5) percentage points higher than for the State of Wyoming. Based on these criteria, the environmental justice populations were identified in the following locations: Albany County (low-income EJ populations), Carbon County (minority low-income populations), Fremont County (minority and low-income EJ populations), Sweetwater County (minority EJ populations), and Teton County (minority EJ populations).

### 3.14.3 Public Health and Safety

Oil and gas development, as well as other industrial uses, such as coal and trona mining, has been occurring in Wyoming for many decades. Due to the scattered nature and the small area encompassed by the proposed parcels coupled with low population density, industrial safety programs, standards, and state and federal regulations, offering these parcels is not expected to substantially increase health or safety risks to humans, wildlife, or livestock. Parcels that contain lands with private surface overlying federal minerals (i.e., split-estate) have or have the potential to contain private residences and associated facilities such as domestic water supply wells. Several of these parcels may be used for individual, dispersed, recreational activities which could expose these users to oil and gas related activity.

Six parcels (260, 261, 300, 301, 302, and 675) are wholly or partially located within the Sweetwater County Growth Management Area. In accordance with the Green River RMP (pg. 12), in consultation with local governments, these parcels may remain unleased.
4. Impacts Analysis

The sale of parcels and issuance of oil and gas leases is strictly an administrative action. Nominated lease parcels are reviewed under the approved RMP, and stipulations are attached to mitigate any known environmental or resource conflicts that may occur on a proposed lease parcel. On-the-ground impacts would not occur until a lessee or their designated operator applies for and receives approval to undertake surface-disturbing lease actions.

The BLM cannot reasonably determine at the leasing stage whether or not a nominated parcel will actually be leased, or if leased, whether or not the lease would be explored or developed or at what intensity development may occur.

As an illustration of the uncertainty as to whether a lease parcel, if issued, will be developed, GIS data (as of April 2018) indicate that most (58%) of Federal oil and gas leases in Wyoming do not have any active wells located within their boundaries. Using the April 2018 GIS data, the active well spacing on individual leases ranges from 5,494.7 acres per well to 0.3 acres per well ($\mu = 298.9, \sigma = 438.8$).

The uncertainty that exists at the time the BLM offers a lease for sale includes crucial factors that will affect potential impacts, such as: well density; geological conditions; development type (vertical, directional, horizontal); hydrocarbon characteristics; equipment to be used during construction, drilling, production, and abandonment operations; and potential regulatory changes over the life of the 10-year primary lease term.

If lands are offered, leased, and a proposal for site-specific lease operations is received by the BLM, additional NEPA compliance documentation and technical analysis would be prepared by the BLM. Aside from the applicable protection measures required under the lease stipulations (see Attachment 5.1), additional mitigation may be applied as COAs at that time to mitigate identified impacts.

As described in Section 1.4, above, this EA tiers to the applicable RMP FEISs and the lease sale EAs prepared for Part 1 of the Fourth-Quarter 2018/February 2019 supplemental lease sale. In the impacts analysis for the alternatives, below, this EA will only address those resources and impacts where the BLM has determined there are new circumstances or information, or where we believe it will be helpful to inform the public about actions that may occur on public lands. This approach comports with the BLM’s NEPA Handbook H-1790-1 (at page 28):

The tiered EA for the individual action need not re-analyze the effects on resources fully analyzed in the broader EIS, but may instead focus on the effects of the individual action not analyzed in the broader EIS.

The EAs tiered to the existing field office/resource area RMPs and their respective Environmental Impact Statements (EISs), in accordance with 40 CFR § 1502.20:

Agencies are encouraged to tier their environmental impact statements to eliminate repetitive discussions of the same issues and to focus on the actual issues ripe for decision at each level of environmental review... the subsequent environmental assessment need only summarize the issues discussed in the broader statement and incorporate discussions from the broader statement by reference and shall concentrate on the issues specific to the subsequent action.

For additional descriptions of the potential direct, indirect, and the cumulative impacts for the alternatives considered below, please refer to the RMP FEISs referenced in Section 1.4.

4.1 No Action Alternative

Under the No Action Alternative, the proposed lease sale parcels would not be offered at this time. Due to demand for oil and gas, it would be expected that some of these parcels would be re-nominated, offered, and possibly leased in the future, in conformance with approved RMPs.

Under this alternative, none of the proposed parcels would be offered for lease at the oil and gas sale (at least as it pertains to Fourth-Quarter 2018 sale; see Section 1.1) and there would be no subsequent impacts to the existing environment caused by potential oil and gas lease operations. The No Action Alternative would result in the continuation of already-approved land uses, but would not result in impacts relating to exploration and development of these oil and gas lease parcels, because they would not be leased. Other exploration and development activities in the surrounding areas that are currently leased would continue. One specific adverse impact resulting from the No Action Alternative that is foreseen would be to socioeconomics.

4.1.1 Socioeconomics
Under the No Action Alternative, none of the proposed parcels would be offered for lease, resulting in reduced bonus bid revenues and rentals. Since not leasing these minerals would prevent private entities from exploring and developing these minerals, subsequent oil and gas production and generation of royalty revenues would not occur.

The State of Wyoming, as well as many counties and communities within, rely on oil and gas development as an important part of their economic base. The employment and purchasing opportunities associated with developing and producing wells on these leases would also be foregone, as would the opportunity to provide oil and gas resources from these lease parcels to help meet the nation’s energy needs. Refer to the applicable RMP FEISs, including Section 4.11 of the Wyoming Greater Sage-grouse Proposed Land Use Plan Amendment and FEIS (beginning on page 4-134) for additional discussion of potential socioeconomic impacts.

4.2 Proposed Action Alternative

The Proposed Action Alternative would offer 580 parcels (comprised of 781,719.5 acres) at the BLM-Wyoming’s Fourth-Quarter 2018 competitive oil and gas lease sale. Attachment 5.1 describes the stipulations that would be applied to each parcel to mitigate anticipated impacts in conformance with the applicable field office RMPs.

The approved RMPs, as amended, have evaluated the need to protect resources on public lands in accordance with the BLM’s multiple-use and sustained yield mandate. Three categories of stipulations are used by BLM-Wyoming (Uniform Format for Oil and Gas Lease Stipulations, March 1989):

- **No Surface Occupancy (NSO)** stipulation: use or occupancy of the land surface for fluid mineral exploration or development is prohibited to protect identified resource values.
- **Controlled Surface Use (CSU)** stipulation: use and occupancy are allowed (unless restricted by another stipulation) but identified resource values require special operational constraints that may modify the lease rights.
- **Timing Limitation Stipulations (TLS)**: prohibits surface use during specified time periods to protect identified resource values. This stipulation does not apply to the operation and maintenance of production facilities unless the findings of site-specific analysis demonstrates the continued need for such mitigation and that less stringent, project specific mitigation measures would be insufficient.

4.2.1 RMP Special Designations

The proposed parcels are located within areas open to leasing under the approved RMPs. Applicable lease stipulations for RMP Special Designations have been added to each parcel to ensure conformance with the approved RMPs. For parcels located in ACECs open to leasing under the approved RMPs, at the time of a site-specific application for lease operations ACEC values will be identified and conditions of approval to mitigate adverse impacts to ACECs may be imposed at that time. Several parcels are located adjacent to multiple SMAs and/or WSAs. These impacts are generally addressed in the Recreation and Visual Resource Management sections.

Impacts to lands identified as having wilderness characteristics as a result of future lease development would be consistent with those identified in the Field Office RMPs, as amended (2015), and may include both short-term and long-term direct and indirect impacts. Should development of the parcels occur, this could result in the temporary loss of one or more of the individual wilderness components including indirectly affecting any aesthetic values. Specific impacts, and necessary mitigation, would be identified at the APD stage should the parcels be sold and development proposed. Stipulations applied for other resource protection could mitigate impacts to LWCs. Parcels located within SMAs have been stipulated in accordance with the appropriate RMPs such that surface use would be controlled, or surface occupancy would be prohibited. Where surface occupancy is prohibited, operations could be sited off-lease in areas where BLM would not have the same level of regulatory authority as if the operations were occurring on public lands.

4.2.2 Air Resources

4.2.2.1 Air Quality

Refer to Sections 4.2 (page 4-5) and 4.22.3 of the Wyoming Greater Sage-grouse Proposed Land Use Plan Amendment and FEIS (Approved Resource Management Plan Amendment, or ARMPA) (beginning on page 4-134) for a discussion of potential impacts to Air Quality, and related values for the HDD, the CFO and the NFO. Refer to Section 4.2.4 (beginning on page 4-7) of the ARMPA FEIS for a discussion of potential impacts to air quality resulting from oil and gas development, including potential greenhouse gas emissions. The air emissions projections within the ARMPA for oil and gas development were calculated using the latest emissions estimates data from the BFO and LFO EISs (BLM 2010).
The amount of increased emissions Pollutants associated with the combustion of fossil fuels anticipated to be released during drilling/completion operations include:

- CO, NOx, SOx, PM, CO2, CH4 and N2O. Venting may release VOCs/HAPs, H2S, and CH4. The amount of increased emissions cannot be quantified at this time since it is unknown how many wells or what type (oil, gas or both) may be proposed for development, the types of equipment needed if a well were to be put into production (e.g., compressor, separator, dehydrator), or what technologies may be employed by a given company. The degree of impact will also vary according to the characteristics of the geologic formations from which production occurs. During the completion phase, the principal pollutants emitted are VOCs, HAPs, particulate matter and NOx. VOCs and NOx contribute to the formation of ozone. During well completion, injected fracturing fluids, formation fluids and reservoir gas are

Additional information regarding air quality related values including Visibility, Hazardous Air Pollutants (HAPs) and Deposition is located in Attachment 5.3.

There can be limitations associated with a quantitative approach given the uncertainties regarding the number, nature, and specific location of future sources and activities. The estimated emissions in the RMP EIIs were determined using the following assumptions:

- Emissions from BLM-authorized activities for both construction and operations are calculated for year 2020 and year 2031. Year 2020 was chosen because construction emissions would be at its peak during that year due to peak well construction at each location. Year 2031 was chosen because operational emissions would be at the highest level, while construction emissions would be at the lowest; and
- Appropriate Required Design Features (RDFs) and/or BMPs will be applied; the subject RMPs’ analyses disclose the residual impacts that have the potential to occur after application of the RDFs and/or BMPs.

It should be noted that for both of the above assumptions, the pace and timing of mineral development activities is dependent on a variety of factors outside the control of the BLM. These include national and international energy demand and prices, production factors within the planning area, and individual strategic choices made by operators.

The administrative act of offering any of these parcels and the subsequent issuing of leases would have no direct impacts to air quality. Any potential effects to air quality would occur if the leases are developed. Any proposed development project would be subject to additional analysis of possible air effects before approval, when necessary. The analysis may include air quality modeling for the activity in accordance with the National BLM, EPA and NPS Air Quality Memorandum of Understanding (MOU).

Over the last 10 years, the development on federal oil and gas mineral estate in the HDD has resulted in an average of 396 usable wells being completed annually (approximately 5 in KFO, 60 in RFO, 23 in RSFO, and 326 in PFO). These drilling rates have decreased over time. Over the last 10 years, the development on federal oil and gas mineral estate in the WHBD has resulted in approximately 21 usable wells completed annually (approximately 13 in LFO, and 8 between CYFO and WFO). Finally, over the last 10 years in the HPD, approximately 373 usable wells are completed on an annual basis, including 277 in BFO, 78 in CPO and 18 in NFO. The number of usable completions in the BFO has decreased over time as the coalbed natural gas play has largely ceased production, while new horizontal production is being explored primarily in the CFO and the southern portion of the BFO. The addition of these wells would incrementally contribute to the total emissions (including GHGs) from oil and gas activities in Wyoming. The amount of contribution is unknown because other wells in the districts are being plugged and abandoned, so a certain amount of this production is replacing other wells that are no longer productive.

Potential impacts of development could include increased airborne particulates associated with the construction of new well pads, pipelines, or roads, exhaust emissions from drilling and completion equipment/activities, compressors, vehicles, and dehydation and separation facilities, as well as releases of GHG and volatile organic compounds during many of these activities. The following sources of emissions are anticipated during oil and gas development should the leases be sold and development proposed and found to be economic:

- combustion engines (e.g., fossil fuel-fired internal combustion engines used to supply electrical or hydraulic power for hydraulic fracturing to drive the pumps and rigs used to drill the well, drill out the hydraulic stage plugs and run the production tubing in the well; generators to power drill rigs, pumps and other equipment; compressors used to increase the pressure of the oil or gas for transport and use; tailpipe emissions from vehicles transporting equipment to the site),
- venting (e.g., fuel storage tanks, vents, and pressure control equipment),
- mobile emissions (e.g., vehicles bringing equipment, personnel or supplies to the location), and
- fugitive sources (e.g., pneumatic valves, tank leaks, dust).

Pollutants associated with the combustion of fossil fuels anticipated to be released during drilling/completion operations include:

CO, NOx, SOx, PM, CO2, CH4 and N2O. Venting may release VOCs/HAPs, H2S, and CH4. The amount of increased emissions cannot be quantified at this time since it is unknown how many wells or what type (oil, gas or both) may be proposed for development, the types of equipment needed if a well were to be put into production (e.g., compressor, separator, dehydrator), or what technologies may be employed by a given company. The degree of impact will also vary according to the characteristics of the geologic formations from which production occurs.

During the completion phase, the principal pollutants emitted are VOCs, HAPs, particulate matter and NOx. VOCs and NOx contribute to the formation of ozone. During well completion, injected fracturing fluids, formation fluids and reservoir gas are
flowed back to the surface. The flowback of formation fluids and reservoir gas will include additional VOCs and methane, along with hazardous air pollutants such as benzene, ethylbenzene, and n-hexane. Pollution also may be emitted from other processes and equipment during production and transportation of oil and gas from the well to a processing facility. Refer to Attachment 5.6, (Hydraulic Fracturing White Paper) for more information, which is incorporated by reference.

The RFD scenario for all four field offices in the HDD, the CFO and the NFO, was updated under the ARMPA (2015), which cumulatively covers nearly 11 million acres of federal fluid minerals. This RFD projects 12,723 wells could be developed during the life of the plans.

The RFD scenario for all three field offices in the WRBBD was updated during the recent planning efforts for the LFO (2014) and the Bighorn Basin (2015), and cumulatively covers nearly 7 million acres of federal fluid minerals. This RFD projects 3,100 wells in the Bighorn Basin and 3,400 wells in the LFO could be developed during the life of the plans.

The RFD scenario for the BFO in the HPD was updated during the recent planning efforts for the BFO RMP revision (2015). This RFD projects 11,018 wells could be developed during the life of the plan. All of the aforementioned RFD projected well numbers include both federal and non-federal wells.

Development density (wells per square mile) and number of wells installed annually depend on a number of variables including market trends, technology available (vertical, directional, or horizontal drilling), the geology of the hydrocarbon-bearing zone, and the application of CSU and NSO stipulations. As a result, the number of wells that could potentially be put into production under a full-field development scenario as a result of offering the leases is unknown. Current APD permitting trends within the field offices confirm that the RFD assumptions are reasonably accurate.

Coal-bed natural gas (CBNG) development currently exists within the RFO. Approximately 8.5 percent of the active wells in the RFO are CBNG wells. Based on the existing development and the RFD for the RFO, CBNG-related emissions can be expected. Although the RFD for the KFO RMP assumes a CBNG development rate of up to 15 wells per year, there currently is no active or proposed CBNG development in the KFO; therefore, there are no expected emissions from CBNG. Several CBNG wells exist in the PFO, but have proven unproductive; therefore, there are no expected emissions from this source although they are included in the estimation of GHG emissions as the geologic potential still remains.

CBNG production does not currently exist within the WRBBD; a total of 14 CBNG wells have been installed in the LFO; all but one were plugged without producing in economical quantities. Although the RFD scenarios for both the LFO and Bighorn Basin RMPs assumes a CBNG development rate of up to 15 wells per year, there is no active or proposed CBNG development in the field offices; therefore, there are no expected emissions although they are included in the estimation of GHG emissions as the geologic potential still remains.

While CBNG production is still occurring the BFO, the most current RFD projects no new CBNG wells will be drilled/completed and active plugging operations of existing wells is ongoing.

4.2.2.2 Greenhouse Gas Emissions and Climate Change

Please refer to the applicable RMP FEIS, including Section 4.2.4 (beginning on page 4-7) of the ARMPA FEIS, Section 4.1.1 (beginning on page 650) of the BFO ARMP for a discussion of potential impacts to air quality resulting from oil and gas development, including potential direct GHG emissions.

The administrative act of leasing would not result in any direct, indirect, or add to cumulative GHG emissions. Nevertheless, the BLM recognizes that GHG emissions are a potential effect of the subsequent fluid mineral exploration and/or development of any leases that are issued. Oil and gas activities may lead to the installation and production of new wells, which may consequently produce GHG emissions. The primary sources of GHG emissions include the following:

- Fossil fuel combustion for construction and operation of oil and gas facilities – vehicles driving to and from production sites, engines that drive drill rigs, etc. These produce CO2 in quantities that vary depending on the age, types, and conditions of the equipment as well as the targeted formation, locations of wells with respect to processing facilities and pipelines, and other site-specific factors;
- Fugitive CH4 – CH4 that escapes from wells (both gas and oil), oil storage, and various types of processing equipment. This is a major source of global CH4 emissions. These emissions have been estimated for various aspects of the energy sector, and starting in 2011, producers are required under 40 CFR 98, to estimate and report their CH4 emissions to the EPA; and
- Combustion of produced oil and gas – it is expected that future operations would produce marketable quantities of oil and/or gas. Combustion of the oil and/or gas would release CO2 into the atmosphere. Fossil fuel combustion is the largest source of global CO2.
In recent years, many states, tribes, and other organizations have initiated GHG inventories, tallying GHG emissions by economic sector. The EPA provides links to statewide GHG emissions inventories (EPA, 2015). Guidelines for estimating project-specific GHG emissions are available (URS Corporation, 2010), but some additional data, including the projected volume of oil or natural gas produced for an average well, number of wells, and other factors were used to provide GHG estimates.

Wyoming’s total GHG emissions are expected to continue to grow to 69 MMtCO2e by 2020, 56% above 1990 levels. As described in the CCS inventory report, 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 decreased carbon dioxide emissions from venting at processing plants. Additional capture of fugitive emissions will likely result in further reductions in emissions at all points in the production and refining processes for oil and gas products.

**Direct Emissions**

The Petroleum Association of Wyoming’s website (http://www.pawyo.org) reports that in 2016, there were 25,058 producing wells in the state, 42 operational gas processing plants, 6 oil refineries, and over 38.600 miles of crude oil, gas, and petroleum product pipelines located across all land ownership patterns in the state. In 2016, sales of crude oil production totaled 72.5 million barrels, down 17.4% from 2015. Sales of natural gas production in 2016 totaled 1,628 trillion cubic feet down 7.7% from 2015.

Since oil and gas production is market-driven, there are significant uncertainties associated with estimates of future Wyoming GHG emissions from this sector. This is compounded by the fact that there are no regulatory requirements to track CO2 or CH4 emissions, although they may be regulated indirectly under other air quality standards.

However, as reported by the Wyoming GHG Inventory and Reference Case Projection CCS (Spring 2007) emissions from the fossil fuel sector grew 101% from 1990 to 2005 and are projected to increase by a further 10% between 2005 and 2020 (if economic incentives remain). The natural gas industry is the major contributor to both GHG emissions and emissions growth, with CH4 emissions from coal mining second in terms of overall contribution. It is worth noting that a significant portion of the emissions attributed to the natural gas industry are due to vented gas from processing plants, many of which are used for injection in enhanced oil recovery operations. Additionally, many technological advances in emission control technology have been implemented by the oil and gas industry to reduce emission levels.

The average number of oil and gas wells drilled annually in the HDD 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. For additional information on projected emissions of GHGs, please see Wyoming Greater Sage-grouse Land Use Plan Amendment FEIS pages 4-15 thru 4-20, 4-27 thru 4-28, 4-32 thru 4-33, and 4-36 thru 4-37. As analyzed in the FEIS, total CO2e emissions for the full RFD under the GRSG ARMPA in 2031 (expected maximum year of construction associated emissions) is projected to be: 1,713,044 metric tonnes (mt) for natural gas wells, 1,558,288 mt for CBNG, 15,649 mt for oil wells, 4,067 mt from horizontal natural gas wells and 161 mt from horizontal oil wells, with a total CO2e of 3.64 million metric tonnes. This assumes that all wells projected under the RFD are drilled and producing, and that there are no controls on the waste stream.

The average number of oil and gas wells drilled annually in the WRBBD 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. For additional information on projected emissions of GHGs, please see LFO FEIS pages 593-629 and the Bighorn Basin FEIS beginning at page 4-23. As analyzed in the WRBBD RMP EIIs, total CO2e emissions for the full RFD in the LFO (expected maximum year of associated emissions) is projected to be: 1.11 million metric tonnes (Mmt) and 0.91 MMt in the Bighorn Basin. This assumes that all wells projected under the RFD are drilled and producing, and that there are no controls on the waste stream.

The average number of oil and gas wells drilled annually in the HPD 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. For additional information on projected emissions of GHGs, please see Wyoming Greater Sage-grouse Land Use Plan Amendment FEIS pages 4-10 thru 4-39, and the BFO RMP FEIS pages 682-701. As analyzed in the GRSG ARMPA, total CO2e emissions for the full RFD under the GRSG ARMPA in 2020 (expected maximum year of construction associated emissions) is projected to be: 2,048,154 mt for natural gas wells, 1,466,658 mt for CBNG, 59,641 mt for oil wells, 53,152 mt from horizontal natural gas wells and 14,358 mt from horizontal oil wells, with a total CO2e of 3.64 Mmt. This assumes that all wells projected under the RFD are drilled and producing, and that there are no controls on the waste stream (ARMPA Table 4-4).
Assuming these lands are leased and developed to the full potential, as projected by the RFD for the GRSG ARMPA (2015) as it pertains to the HDD, development to the full RFD in the KFO would produce a total of 380,924 mt of CO2e; the PFO is projected to produce a total of 1,618,329 mt; the RFO is projected to produce a total of 1,147,892 mt, and the RSFO is projected to produce a total of 25,192 mt. Direct GHG emissions resulting from any future development of these parcels is within the projections identified in the GRSG ARMPA FEIS and includes all emissions generated from construction through the production of the wells and are based on the year 2020 estimates, projected to be the peak period for well development.

Assuming these lands are leased and developed to the full potential, as projected by the RFD for the WRBBBD RMPs, development to the full RFD in the LFO would produce a total of 1.11 MMt of CO2e per year; the Cody and Worland FOs are projected to produce a total of 0.16 MMt of CO2e per year. Direct GHG emissions resulting from any future development of these parcels is within the projections identified in the FEISs and includes all emissions generated from construction through the production of the wells and are based on the year 2018 estimates, projected to be the peak period for well development.

Assuming these lands are leased and developed to the full potential, as projected by the RFDs for the GRSG ARMPA and Buffalo ARMP in the HPD, development to the full RFD in the CFO would produce a total of 386,924 mt of CO2e (ARMPA Table 4-6) and the NFO is projected to produce a total of 20,245 mt CO2e (ARMPA Table 4-14). Direct GHG emissions resulting from any future development of these parcels is within the projections identified in the GRSG ARMPA FEIS and includes all emissions generated from construction through the production of the wells and are based on the year 2020 estimates, projected to be the peak period for well development.

The BFO is projected to produce a total of 262,267 mt CO2e (RMP Table 4.24). Direct GHG emissions resulting from any future development of these parcels is within the projections identified in the BFO’s RMP FEIS and includes all emissions generated from construction through the production of the wells and are based on the year 2024 estimates. For the BFO’s RMP analysis, GHG emissions were estimated for a 20-year period, beginning with 2005 as the base year, 2015 as the mid-point interim year, and 2024 as the end of this period. Annual emissions of CO2e for activities in the BFO, as analyzed in the Buffalo ARMP for 2024, are estimated to be 101,448 mt for natural gas, 110,721 mt for coalbed natural gas, 50,099 mt for oil, with a total 262,267 mt CO2e (RMP Table 4.24).

To break this down further, the Buffalo Field Office, for the year 2024 estimated the following emissions would occur from oil and gas development on all lands in their field office (tons/year) (BFO FEIS pg. 694): CO2: 209,261; CH4: 19,456; N2O:3; and CO2e:618,877. These figures were calculated using a GWP of 21 for CH4 and 310 GWP for N2O on a 100-year time horizon.

The United States primarily uses the 100-year GWP as a measure of the relative impact of different GHGs. However, the scientific community has developed a number of other metrics that could be used for comparing one GHG to another. These metrics may differ based on timeframe, the climate endpoint measured, or the method of calculation.

For example, the 20-year GWP is sometimes used as an alternative to the 100-year GWP. Just like the 100-year GWP is based on the energy absorbed by a gas over 100 years, the 20-year GWP is based on the energy absorbed over 20 years. This 20-year GWP prioritizes gases with shorter lifetimes, because it does not consider impacts that happen more than 20 years after the emissions occur. Because all GWPs are calculated relative to CO2, GWPs based on a shorter timeframe will be larger for gases with lifetimes shorter than that of CO2, and smaller for gases with lifetimes longer than CO2. A federal district Court held that the analysis for the BFO RMP amendment did not comply with NEPA when the analysis did not explain why BLM used a 100-year time horizon.

Utilizing an alternative 100 year GWP for methane (28) and the 100 yr GWP for N2O (298), and the IPCC calculated GWPs on a 20-year time horizon is shown in the table below. BLM has utilized the lower end of the 100year range because the emissions from a 36 GWP (100year) would be within the ultimate range of potential methane emissions:

<table>
<thead>
<tr>
<th>BFO 2024</th>
<th>conversion factor</th>
<th>Metric tons</th>
<th>GWP (100 Yr)</th>
<th>mt CO2e</th>
<th>GWP (20 year)*</th>
<th>mt CO2e</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO2</td>
<td>209,261</td>
<td>1.102</td>
<td>189,892</td>
<td>1</td>
<td>189,892</td>
<td>1</td>
</tr>
<tr>
<td>CH4</td>
<td>19,456</td>
<td>1.102</td>
<td>17,650.2</td>
<td>36</td>
<td>635,407.2</td>
<td>87</td>
</tr>
<tr>
<td>N2O</td>
<td>3</td>
<td>1.102</td>
<td>2.72</td>
<td>298</td>
<td>810.6</td>
<td>289</td>
</tr>
<tr>
<td>CO2e</td>
<td>618,877</td>
<td></td>
<td></td>
<td>631,957.6</td>
<td>16,732,964.9</td>
<td></td>
</tr>
</tbody>
</table>


CH4 emitted today lasts about a decade on average, which is much less time than CO2. But CH4 also absorbs much more energy than CO2. The net effect of the shorter lifetime and higher energy absorption is reflected in the GWP. The CH4 GWP also accounts for some indirect effects, such as the fact that CH4 is a precursor to ozone, and ozone is itself a GHG.
Nitrous Oxide (N2O) has a GWP 265–298 times that of CO2 for a 100-year timescale. N2O emitted today remains in the atmosphere for more than 100 years, on average so the 20 year time horizon is generally not representative of actual persistence and/or effect.

Any incremental contribution to global GHG gases cannot be translated into incremental effects on climate change globally, regionally, or in the area of these site-specific actions. As oil and gas and natural gas production technology continues to improve in the future, it may be feasible to further reduce GHG emissions. Information contained in Attachment 5.6, Hydraulic Fracturing White Paper, is incorporated by reference.

Indirect Emissions

Information on production of oil and gas was provided by the BLM Reservoir Management Group (RMG) and BLM field and district office staff to support analysis within the GRSG ARMPA FEIS. The information used to develop total oil and gas production estimates by year for each alternative and each field office or planning unit, including the number of wells drilled each year by alternative for each field office or planning unit (from the RFD), the percent of wells that were oil versus gas, the percent of wells completed, production decline curves for oil and gas wells, and estimates of cross-production from both oil and gas wells.

As discussed in Appendix N, Social and Economic Impact Analysis Methodology, from the ARMPA FEIS, the procedure to determine total production was as follows: For each year, the number of wells completed was broken down into oil and gas wells based on the breakdown assumptions per field office and planning unit provided by BLM staff. For each well type, the average first year production rate (volume) from the annual decline curves for each field office and planning unit (as provided by RMG) was then applied to determine the total production from first-year wells. In subsequent years, the appropriate average production rates from the decline curves were applied to the number of second year wells, third year wells, and so on. Total production was then summed across all the well age cohorts for each year within the analysis period. Co-production volume was calculated based on the numbers of wells of each type and the co-production rates from the RMG, and added to the total production volume.

Using the above projection, and utilizing the EPA GHG Equivalences Calculator, assuming 100% combustion of the produced fluids, estimate indirect emissions are shown in the table, below:

### Indirect Cumulative GHG Emissions: assumes 100% Combustion (metric tons CO2)

#### Oil and Gas Production (Alternative D Preferred Alternative) - Buffalo FO Summary (2016-2020)

<table>
<thead>
<tr>
<th>Year</th>
<th>Gas (MCF)</th>
<th>Oil (BBLs)</th>
<th>Year</th>
<th>Gas (CO2)</th>
<th>Oil (CO2)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>29,200,000</td>
<td>2,300,000</td>
<td>2016</td>
<td>1,597,736.40</td>
<td>989,000.00</td>
<td>2,586,736.40</td>
</tr>
<tr>
<td>2017</td>
<td>31,300,000</td>
<td>2,300,000</td>
<td>2017</td>
<td>1,712,642.10</td>
<td>989,000.00</td>
<td>2,701,642.10</td>
</tr>
<tr>
<td>2018</td>
<td>36,000,000</td>
<td>3,000,000</td>
<td>2018</td>
<td>1,969,812.00</td>
<td>1,290,000.00</td>
<td>3,259,812.00</td>
</tr>
<tr>
<td>2019</td>
<td>40,800,000</td>
<td>3,400,000</td>
<td>2019</td>
<td>2,232,453.60</td>
<td>1,462,000.00</td>
<td>3,694,453.60</td>
</tr>
<tr>
<td>2020</td>
<td>47,000,000</td>
<td>3,800,000</td>
<td>2020</td>
<td>2,571,699.00</td>
<td>1,634,000.00</td>
<td>4,205,699.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Total:</td>
<td>10,084,343.10</td>
<td>6,364,000.00</td>
<td>16,448,343.10</td>
</tr>
</tbody>
</table>

#### Oil and Gas Production (Alternative E ARMPA) - Summary (2016-2020)

<table>
<thead>
<tr>
<th>Year</th>
<th>Gas (MCF)</th>
<th>Oil (BBLs)</th>
<th>Year</th>
<th>Gas (CO2)</th>
<th>Oil (CO2)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>698,316,896</td>
<td>8,249,909</td>
<td>2016</td>
<td>38,209,805.62</td>
<td>3,547,460.73</td>
<td>41,757,266.35</td>
</tr>
<tr>
<td>2017</td>
<td>787,612,542</td>
<td>9,347,281</td>
<td>2017</td>
<td>43,095,795.48</td>
<td>3,019,330.96</td>
<td>47,115,126.44</td>
</tr>
<tr>
<td>2018</td>
<td>857,779,351</td>
<td>10,266,540</td>
<td>2018</td>
<td>46,935,112.75</td>
<td>4,414,612.22</td>
<td>51,349,724.97</td>
</tr>
<tr>
<td>2019</td>
<td>931,096,889</td>
<td>11,175,941</td>
<td>2019</td>
<td>50,946,828.45</td>
<td>4,805,657.29</td>
<td>55,752,483.24</td>
</tr>
<tr>
<td>2020</td>
<td>993,733,861</td>
<td>12,012,924</td>
<td>2020</td>
<td>54,374,135.65</td>
<td>5,165,557.29</td>
<td>59,539,692.94</td>
</tr>
</tbody>
</table>
## Oil and Gas Production (Alternative D Preferred Alternative from BHB RMP) - Cody and Worland FO Summary (2016-2020)

<table>
<thead>
<tr>
<th>Year</th>
<th>Gas (MCF)</th>
<th>Oil (BBLS)</th>
<th>Year</th>
<th>Gas (CO2)</th>
<th>Oil (CO2)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>29,200,000</td>
<td>2,300,000</td>
<td>2016</td>
<td>1,597,736.40</td>
<td>989,000.00</td>
<td>2,586,736.40</td>
</tr>
<tr>
<td>2017</td>
<td>31,300,000</td>
<td>2,300,000</td>
<td>2017</td>
<td>1,712,642.10</td>
<td>989,000.00</td>
<td>2,701,642.10</td>
</tr>
<tr>
<td>2018</td>
<td>36,000,000</td>
<td>3,000,000</td>
<td>2018</td>
<td>1,969,812.00</td>
<td>1,290,000.00</td>
<td>3,259,812.00</td>
</tr>
<tr>
<td>2019</td>
<td>40,800,000</td>
<td>3,400,000</td>
<td>2019</td>
<td>2,232,453.60</td>
<td>1,462,000.00</td>
<td>3,694,453.60</td>
</tr>
<tr>
<td>2020</td>
<td>47,000,000</td>
<td>3,800,000</td>
<td>2020</td>
<td>2,571,699.00</td>
<td>1,634,000.00</td>
<td>4,205,699.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Total: 10,084,343.10</td>
<td>6,364,000.00</td>
<td>16,448,343.10</td>
</tr>
</tbody>
</table>

## Oil and Gas Production (Alternative D Preferred Alternative from Lander RMP) - Lander FO Summary (2016-2020)

<table>
<thead>
<tr>
<th>Year</th>
<th>Gas (MCF)</th>
<th>Oil (BBLS)</th>
<th>Year</th>
<th>Gas (CO2)</th>
<th>Oil (CO2)</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>203,500,000</td>
<td>2,300,000</td>
<td>2016</td>
<td>11,134,909.50</td>
<td>989,000.00</td>
<td>12,123,909.50</td>
</tr>
<tr>
<td>2017</td>
<td>198,800,000</td>
<td>2,200,000</td>
<td>2017</td>
<td>10,877,739.60</td>
<td>946,000.00</td>
<td>11,823,739.60</td>
</tr>
<tr>
<td>2018</td>
<td>205,900,000</td>
<td>2,000,000</td>
<td>2018</td>
<td>11,266,230.30</td>
<td>860,000.00</td>
<td>12,126,230.30</td>
</tr>
<tr>
<td>2019</td>
<td>227,600,000</td>
<td>2,300,000</td>
<td>2019</td>
<td>12,453,589.20</td>
<td>989,000.00</td>
<td>13,442,589.20</td>
</tr>
<tr>
<td>2020</td>
<td>238,200,000</td>
<td>2,400,000</td>
<td>2020</td>
<td>13,033,589.40</td>
<td>1,032,000.00</td>
<td>14,065,589.40</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Total: 58,766,058.00</td>
<td>4,816,000.00</td>
<td>63,582,058.00</td>
</tr>
</tbody>
</table>

### Emission Factor Source
EPA GHG Equivalencies Calculator
[https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator](https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator)

**CO2 emissions generated from oil consumption:** 0.43 metric tons CO₂/barrel oil

**CO2 emissions generated from burning natural gas:** 0.054717 metric tons CO₂/MCF

Alternative E is the preferred alternative selected in the ARMPA.

* MCF=one thousand cubic feet
* BBLS=barrels

### Emission Estimate Uncertainties

Although this EA presents quantified estimates of potential direct and indirect GHG emissions associated with the potential for oil and gas development, there is significant uncertainty in GHG emission estimates due to various unknowns with regard to actual production, how produced substances are used, how regulation of the various GHG parameters by the delegated agencies is applied, and whether any Best Available Control Technologies are utilized at the upstream or downstream activity location(s) and the reader is cautioned that, while based on the best available data, these estimates are highly speculative. For example, the RFD scenario reports prepared for the relevant RMPs disclose variable rates of success over time for wells drilled in these planning areas. Based on both historical and current information, the rate of success for wells being productive, range from a low of 13% to upwards of 90% depending upon the location within the individual field offices, the formations being targeted, price indexes, and technological advances. Where discussed in the RFD reports, success rates are expected to decline due to future exploration of unconventional resources. “From the early 1990’s to present, activity has focused almost entirely on very low risk development drilling in and around known field areas, which helped to improve the overall success rate. More future exploratory drilling will be required to discover new resources in the Planning Area and to determine whether its potential coalbed natural gas resource is economic to produce. Since the risk of failure is higher for these types of activities, the success rates could decline slightly in the future.” See RFO RFD (2004), pages 4 - 5, KFO RFD (2006), pages 4-7 to 4-19, and PFO RFD (2006), Table 5]. [See Bighorn Basin (2014), pages 24 - 27, and LFO RFD (2006), pages 12-15]. See BFO RFD (2012) pages 16-17, and CFO RFD (2005) pages 7-9.

### Oil and Gas Product End Use Uncertainty
The direct and indirect emission estimates above provide an estimate of the full potential for GHGs released into the atmosphere from initial wellsite construction, well drilling and completion, production, and end use. A rough estimate was possible using full field and unconstrained potential well development prepared for the ARMPA EIS. With respect to the rough estimates of indirect CO₂ emissions, it should be noted that it is difficult to discern with certainty what end uses for the fuels extracted from a particular leasehold are reasonably foreseeable. For instance, some end uses of fossil fuels extracted from federal leases include: refining for transportation fuels, fuel oils for heating and electricity generation, or production of asphalt and road oil. They may also be used in the chemical industry, for the manufacture of medicines and everyday household items, plastics, military defense and for the manufacture of synthetic materials. The BLM does not exercise control over the specific end use of the oil and gas produced from any individual federal lease and has no authority to direct or regulate the end use of the produced products. As a result, the BLM can only provide an estimate of potential GHG emissions by assuming that all produced products would eventually be combusted. The uncertainty about end uses is in addition to the significant uncertainty with regard to the actual levels of development and production that may occur at any given well.

The following bullet points summarize potential changes identified by the EPA that are expected to occur at the regional scale, where the proposed action and its alternatives are to take place. The EPA identifies this area as part of the Mountain West and Great Plains region:

- The region is expected to experience warmer temperatures with less snowfall.
- Temperatures are expected to increase more in winter than in summer, more at night than in the day, and more in the mountains than at lower elevations.
- Earlier snowmelt means that peak stream flow would be earlier, weeks before the peak needs of ranchers, farmers, recreationalist, and others. In late summer, rivers, lakes, and reservoirs would be drier.
- More frequent, more severe, and possibly longer-lasting droughts are expected to occur.
- Crop and livestock production patterns could shift northward; less soil moisture due to increased evaporation may increase irrigation needs. Drier conditions would reduce the range and health of ponderosa and lodgepole pine forests, and increase the susceptibility to fire. Grasslands and rangelands could expand into previously forested areas.
- Ecosystems would be stressed and wildlife such as the mountain lion, black bear, long-nose sucker, marten, and bald eagle could be further stressed.

Other impacts could include:

- Increased particulate matter in the air as drier, less vegetated soils experience wind erosion.
- Shifts in vegetative communities which could threaten plant and wildlife species.
- Changes in the timing and quantity of snowmelt which could affect both aquatic species and agricultural needs.

Projected and documented broad-scale changes within ecosystems of the U.S. are summarized in the Climate Change SIR (2010). Some key aspects include:

- Large-scale shifts have already occurred in the ranges of species and the timing of the seasons and animal migrations. These shifts are likely to continue (Climate Change SIR 2010). Climate changes include warming temperatures throughout the year and the arrival of spring an average of 10 days to 2 weeks earlier through much of the U.S. compared to 20 years ago. Multiple bird species now migrate north earlier in the year.
- Fires, insect epidemics, disease pathogens, and invasive weed species have increased and these trends are likely to continue. Changes in timing of precipitation and earlier runoff increase fire risks.
- Insect epidemics and the amount of damage that they may inflict have also been on the rise. The combination of higher temperatures and dry conditions have increases insect populations such as pine beetles, which have killed trees on millions of acres in western U.S. and Canada. Warmer winters allow beetles to survive the cold season, which would normally limit populations; while concurrently, drought weakens trees, making them more susceptible to mortality due to insect attack.

The Rapid Ecological Assessment for the Wyoming Basin also provides projections of future climatic changes, while cautioning that reasonably foreseeable changes in climate will vary due to natural inter-annual and decadal variability, uncertainty about future greenhouse gas emissions, and the range of uncertainties in the existing global climate models. The authors also recognize that there are differences among climate models in how they represent climate processes and therefore produce different climate projections for a given time period and location even when the same future emissions scenario drives the simulation. Global temperatures, however, are expected to increase (Intergovernmental Panel on Climate Change, 2013) such that warmer temperatures in the future can be expected, although the magnitude and consequences of warming is uncertain, but note that summers are projected to warm more than winters (an increase of 4.5 °F versus 3.5 °F) (fig. 5.1 in Lukas and others, 2014) while no statistically significant changes in precipitation are noted, winters may be wetter and summers likely drier. Despite the lack of statistically significant projected changes in precipitation, the temperature increase alone could increase evaporation and plant
water demand; thus, even without a decrease in precipitation, water availability for ecosystems could decrease if precipitation remains about average (Carr, 2016).

**Methane and Fossil Fuel Emissions**

| Table E2. Methane Emissions and Projections from the Fossil Fuel Industry |
|-----------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| **Million Metric Tons CO2e** |    6.7      |   11.0      |   17.4      |   22.6      |   25.1      |   27.7      |   32.5      |
| Natural gas industry        | 5.9         | 9.9         | 14.9        | 17.6        | 19.6        | 20.6        | 20.6        |
| Production (CH₄)             | 0.2         | 0.3         | 0.8         | 1.8         | 2.3         | 2.5         | 2.6         |
| Processing (CO₂ & CH₄)      | 4.1         | 7.9         | 7.7         | 8.2         | 7.6         | 7.6         | 7.6         |
| Methane Emissions (CH₄)     | 1.4         | 1.4         | 1.3         | 1.2         | 1.6         | 1.7         | 1.8         |
| Vented Gas (CO₂ & CH₄)      | 2.6         | 6.5         | 6.4         | 6.9         | 6.0         | 5.9         | 5.7         |
| Transmission (CH₄)           | 0.6         | 0.7         | 0.6         | 1.1         | 1.6         | 1.6         | 1.7         |
| Distribution (CH₄)           | 0.1         | 0.1         | 0.1         | 0.1         | 0.1         | 0.1         | 0.1         |
| Oil Industry                | 0.8         | 0.6         | 0.5         | 0.4         | 0.5         | 0.5         | 0.5         |
| Production (CH₄)             | 0.7         | 0.6         | 0.6         | 0.4         | 0.5         | 0.5         | 0.5         |
| Refineries (CH₄)             | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         | 0.0         |
| Coal Mining (CH₄)            | 1.0         | 1.4         | 1.8         | 2.1         | 2.3         | 2.4         | 2.4         |

The value 0.00 in the above table indicates emissions less than 0.005 MMtCO₂e.

Figure E1 displays the CH₄ emissions from coal mining and natural gas and oil systems, on an MMtCO₂e basis.

**4.2.2.3 Mitigation of Impacts to Air Resources**

The BLM holds regulatory jurisdiction over portions of natural gas and petroleum systems, identified in the EPA Inventory of U.S. Greenhouse Gas Emissions and Sinks document. Exercise of this regulatory jurisdiction has led to development of BMPs designed to reduce emissions from field production and operations. Analysis and approval of future development on the lease parcels may include applicable BMPs as Conditions of Approval (COAs) in order to reduce or mitigate GHG emissions, if necessary and within the authority of the BLM to administer. Additional measures developed at the project development stage may be incorporated as applicant-committed measures by the project proponent, added to necessary State of Wyoming air quality permits, or as COAs in the approved APD or with a programmatic EIS.

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;
- 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 and low-sulfur fuel for diesel-fired drill rig engines; and,
- Adherence to BLM’s Notice to Lessees (NTL)-4a concerning the venting and flaring of gas on Federal leases for natural gas emissions that cannot be economically recovered,
- Protecting frac sand from wind erosion;
Implementation of directional and horizontal drilling technologies whereby one well provides access to petroleum resources that would normally require the drilling of several vertical wells;
Performing interim reclamation to reclaim areas of the pad not required for production facilities and to reduce the amount of dust from the pads.

Additionally, the BLM encourages oil and gas natural gas companies to adopt proven cost-effective technologies and practices that improve operation efficiency and reduce natural gas emissions to reduce the ultimate impact from the emissions.

In October 2012, the EPA promulgated air quality regulations for completion of hydraulically fractured gas wells. These rules require air pollution mitigation measures that reduce the emissions of VOCs during gas completions. Mitigation includes a process known as “Green Completion” in which the recovered products are sent through a series of aboveground, closed, separators which then negates the need for flowing back into surface pits as the product is then immediately sent to gas lines and the fluids are transferred to onsite tanks. Green completions have been required by the WDEQ for many years in the Upper Green River Basin and the requirement was expanded throughout the State of Wyoming in 2015.

EPA Inventory data show that adoption by industry of the BMPs proposed by the EPA Natural Gas Energy Star program has reduced emissions from oil and gas exploration and development. The BLM will continue to 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 authorities and policies, and is determined necessary through the NEPA process.

4.2.3 Geology and Mineral Resources

At the time of a site-specific proposal for development of the lease, Standard Lease Stipulation No. 3 protects the prior rights:

Operations will not be approved which, in the opinion of the authorized officer, would unreasonably interfere with the orderly development and/or production from a valid existing mineral lease issued prior to this one for the same lands.

The oil and gas lessee would conduct its operations, so far as reasonably practicable, to avoid damage to any known deposit of any mineral for which any mining claim is located. The lessee would be required to not endanger or unreasonably or materially interfere with any mining claimant’s operations, including any existing surface or underground improvements, workings, or facilities that may have been made for the purpose of mining operations. The provisions of the Multiple Mineral Development Act (30 U.S.C. § 521 et seq.) will apply to the leased lands.

The BLM identified eleven parcels (one in BFO and 10 in RSFO) that contain lands that could pose potential conflicts with existing coal mining operations and/or pending coal Lease by Applications (LBAs). If these lands were offered, leased, and development was subsequently proposed, the BLM may be required to decide whether to approve oil and gas operations that could impede or substantially complicate the economic recovery of coal under existing leases. If oil and gas operations on these leases were authorized, there could be potential worker safety concerns presented by having coal mining and oil and gas operations occurring simultaneously in the same area. In some cases, the two mineral development activities could not reasonably occur at the same time (such as when coal is being surface-mined at a location where proposed oil and gas facilities would be located).

As a result, these parcels (whole or in part) are deferred until there remain no unresolved conflicts with the existing coal mine operations.

4.2.3.1 Master Leasing Plan (MLP) Areas

Under previous BLM policy, (WO IM 2010-117, Oil and Gas Leasing Reform), MLP analysis was conducted in the WRBBBD RMPs as a tool to facilitate resource protection while allowing for oil and gas development. WO IM 2018-034 was signed and issued January 31, 2018, superseding IM 2010-117 and replacing any conflicting guidance or directive found in the BLM Manual or Handbook. Under the new guidance, no new MLPs will be initiated by the BLM, though the existing MLPs remain in effect.

Under the Proposed Action, two parcels in the WFO’s Fifteen Mile MLP area, (parcels 625 and 639 totaling 1280.00 acres), would be offered at this lease sale. Because parcel 639 does not meet the minimum acreage size for an MLP parcel, is not located within an area currently under development and is not in peril of drainage, the 100.00 acre portion inside the MLP will not be offered since it would result in unresolved conflicts and be inconsistent with the RMP. These lands could be nominated and reconsidered at a future sale if the applicable RMP conditions are met.
Therefore, the Proposed Action Alternative would offer 1,180.00 acres in the MLP. The Proposed Action alternative would allow mineral development to occur while protecting resources identified in the MLPs, under the applicable stipulations (see Attachment 5.1)

Offering 19 parcels, whole or in part, within the Greater Little Mountain area will not result in impacts beyond what was considered in the underlying Green River RMP. Offering these lands will still allow for some level of oil and gas production, if the parcels are sold, leases issued, development proposed and economic production secured. It would also allow protection of the Federal mineral estate from potential drainage from adjacent development since the parcels being offered are located in the checkerboard land pattern. Deferring parcels within the large blocks of contiguous BLM mineral estate will cause a temporary loss of revenue but will maintain the relevant resource values in their current state until such time the Rock Springs RMP revision can be completed. Parcel 674 will not be offered due to unresolved conflicts with the Sweetwater County Growth Management Area, see Section 4.2.12.2. As such, 18 parcels within the Greater Little Mountain area will be offered at the Fourth Quarter 2018 sale.

4.2.4 Soils

The act of offering, selling, and issuing federal oil and gas leases does not produce impacts to soils. Subsequent development of the lease could physically disturb soils within the disturbed project areas. Direct impacts from the construction of well pads, access roads, and reserve pits include removal of vegetation, exposure of the soil, mixing of horizons, compaction, loss of top soil productivity and susceptibility to wind and water erosion. Indirect impacts such as runoff, erosion, and off-site sedimentation could result from construction and operation of well sites, access roads, gas pipelines and facilities.

Contamination of soil from drilling/completion and production wastes mixed into soil or spilled on the soil surfaces could cause a long-term reduction in site productivity if not adequately identified and addressed. Many of these direct impacts would be mitigated through proper design, construction and maintenance, and implementation of BMPs.

As required in the applicable RMPs, surface disturbance may be restricted or prohibited on steep slopes and within floodplains. Lease Notice No. 1 addresses surface disturbance on slopes greater than 25 percent and is applied to all parcels.

Prior to authorization of surface disturbance on a lease, the BLM will require the lessee or their designated operator to submit a Surface Use Plan of Operations to the BLM. The requirements in the BLM-Wyoming Reclamation Policy would be implemented for all surface-disturbing activities. Stabilization and reclamation of disturbed areas (both interim and final) will be required, in accordance with Onshore Oil and Gas Order No. 1.

Where applicable, operations on federal leases are required to have spill prevention, control, and countermeasure plans in place. Where spills do occur, the BLM will follow its policies (see WY IM 2009-021) and reporting requirements (see NTL-3A) to ensure the site is cleaned up to the applicable standards.

4.2.5 Solid and Hazardous Wastes

Leasing of the parcels will not directly result in the generation, transport, or disposal of solid and hazardous wastes. If leased, and if operations are proposed on these leases, the lessee will be required to comply with applicable environmental regulations that address exploration and production wastes.

Impacts could be in the form of drilling or completion fluid spills, oil and produced water spills, solid waste or chemical releases, fuel spills, and trash scatter on and off the well pads.

Management of wastes associated with the drilling, completion and production operations on are regulated under the Resource Conservation and Recovery Act (RCRA), Subtitle C regulations. Additionally, waste management requirements are included in the Surface Use Plan of Operations and the drilling plan required for in all APDs. See also BLM-Wyoming Instruction Memorandum WY-2012-007, “Management of Oil and Gas Exploration and Production Pits.”

Lessees or their operators proposing oil storage would be required to have approved Spill Prevention Control and Countermeasure Plans, if the applicable requirements of 40 CFR 112 are met, and must comply with all requirements for reporting of undesirable events under NTL-3A. Lease bonds would not be released until all facilities have been removed, wells are plugged, and satisfactory reclamation has occurred.

BLM will work with new lessee’s and any previous Record Title Owners and/or Operating Rights Owners, to the extent allowed by regulation, to address existing unplugged well bores.
4.2.6 Water Resources

The act of offering, selling, and issuing federal oil and gas leases does not produce impacts to water resources. Subsequent development of a lease may lead to surface disturbance from the construction of well pads, access roads, pipelines, and powerlines, which can result in degradation of surface water quality and groundwater quality from point source pollution, nonpoint source pollution, increased surface water runoff and increased erosion. Alteration of natural drainage paths and channel morphology can also occur as a result of surface disturbance associated with the installation of oil and gas wells. Removal of vegetation can also cause water erosion, leading to a loss of channel stability as well as an increase in sedimentation within drainages.

Those parcels identified in attachment 5.2.1 in the BFO are subject to a CSU which requires that prior to surface disturbance within 500 feet of springs, reservoirs not associated with coal bed natural gas projects, water wells, and perennial streams a site-specific construction, stabilization, and reclamation plan (Plan) must be submitted to the BLM by the applicant as a component of the Application for Permit to Drill (BLM Form 3160-3) or Sundry Notice (BLM Form 3160-5) – Surface Use Plan of Operations.

Parcel 324 in the RSFO is also subject to a CSU for the protection of riparian areas and could include the requirement to submit a site-specific mitigation plan if impact analysis determines it is warranted.

All parcels are subject to Standard Lease Notice No. 1 which requires at a minimum 500’ offset from perennial surface waters and with site-specific analysis could require a greater offset requirement if site-specific impact analysis finds that it is warranted.

Spills of materials used to drill/complete the wells and or produced formation fluids could result in contamination of the soil, and may potentially impact surface and groundwater resources in the long term if not detected and addressed.

A number of techniques may be used in exploration and development operations to increase or enhance the flow of oil and gas. They include hydraulic fracturing and acid introduction to dissolve the formation matrix and create larger void space(s).

Without a discrete development proposal, the use of hydraulic fracturing in the oil and gas development process cannot be predicted. However, this EA incorporates by reference, in its entirety, the Hydraulic Fracturing White Paper included in Attachment 5.6. This document provides a general discussion of the hydraulic fracturing process and issues associated with its use.

The potential for negative impacts to groundwater caused from completion activities such as hydraulic fracturing, have not been confirmed but based on its history of use are not likely. A recent study completed on the Pinedale Anticline did not find a direct link to known detections of petroleum hydrocarbons to the hydraulic fracturing process. Groundwater contamination investigations have also been conducted at the Pavillion gas field and according to a November 7, 2016 fact sheet from the Wyoming Department of Environmental Quality, it is unlikely that the hydraulic fracturing activities have caused impacts to water supply wells (http://deq.wyoming.gov/media/attachments/Water%20Quality/Pavillion%20Investigation/Investigation%20Final%20Report/03_Fact-Sheet-for-the-Pavillion-Wyoming-Area-Domestic-Water-Wells-Final-%20Report.pdf).

Authorization of the proposed projects would require full compliance with local, state, and federal directives and stipulations that relate to surface and groundwater protection and the BLM would deny any APD who proposed drilling and/or completion process was deemed to not be protective of usable water zones as required by 43 CFR 3162.5-2(d).

As stated, groundwater could be affected by multiple factors, including industrial, domestic, or agricultural activities through withdrawal, injection (including chemical injection), or mixing of materials from different geologic layers or the surface. Withdrawal of groundwater could affect local groundwater flow patterns and create changes in the quality or quantity of the remaining groundwater. Based on an evaluation of statewide groundwater availability, and the total projected number of wells to be drilled/completed on BLM administered lands, adequate water supplies are available and would not result in significant impacts on a regional basis even during drought conditions. Loss of a permitted source of groundwater supply due to drawdown would be considered a significant impact if it were to occur. This potential would be assessed at the development stage should a parcel be sold and subsequent development proposed. The drilling of horizontal wells, versus directional and vertical wells may initially appear to require a greater volume of water for drilling/completion purposes. However, a horizontal well develops a much larger area of the reservoir than a directional and/or vertical well and actually results in a lesser volume of fluids being required.9

9 Vertical and directional wells can easily require one well per 10 acres resulting in 64 wells per section. This is in contrast to one horizontal well per 640 acres or one per 320 acres which results in a net decrease in total fluid volumes needed and in surface disturbance acreages.
Information contained in Attachment 5.6, Hydraulic Fracturing White Paper, Section III, Potential Impacts to Usable Water zones (pages 6-10 and Attachment 1), is incorporated by reference. The information being incorporated by reference is generally summarized below. Impacts to the quality of groundwater, should they occur, would likely be limited to a near well bore location due to inferred groundwater flow conditions in the area of the parcels and based on studies completed in the Pinedale Anticline. Impacts to near well groundwater could occur from poor casing and/or cementing practices and the use of potentially hazardous materials within those formations containing freshwater and/or usable water zones. The materials proposed for use in the drilling program within freshwater and/or usable water zones are typically water based and would be protective of usable zones, both water quality and formation integrity. If an operator proposed to use oil based mud in their drilling program, their use is limited to the production formation and formations containing waters deemed not to be usable.

A high risk of fluid migration exists along the vertical pathways created by inadequately constructed wells and unplugged inactive wells. Brine or hydrocarbons can migrate to overlying or underlying aquifers in such wells. This problem is well known in the oil fields around Midland, TX. Since the 1930s, most States have required that multiple barriers be included in well construction and abandonment to prevent migration of injected water, formation fluids, and produced fluids. These barriers include (1) setting surface casing below all known aquifers and cementing the casing to the surface, and (2) extending the casing from the surface to the production or injection interval and cementing the interval. Barriers that can be used to prevent fluid migration in abandoned wells include cement or mechanical plugs. They should be installed (1) at points where the casing has been cut, (2) at the base of the lowermost aquifer, (3) across the surface casing shoe, and (4) at the surface. Individual states, including Wyoming, and the BLM have casing programs for oil and gas wells to limit cross contamination of aquifers. Any proposed drilling/completion activities would have to be in compliance with Onshore Order #2, 43 CFR 3160 regulations, and not result in a violation of a Federal and/or State law. If these conditions were not met, the proposal would be denied. As such, no significant impacts to groundwater from the proposed action are expected.

Exploration, development, and production of traditional oil and gas resources typically do not significantly deplete ground water on a regional basis but may have a limited, short-duration, near-well bore drawdown around the water supply well depending upon length and intensity of pumping activity. Oil and gas resources are often developed from geological reservoirs that do not contain significant amounts of freshwater with the exception of some CBM developed formations; however, the development and production of oil and gas can affect adjacent or nearby aquifers. Potential impacts result from the creation of artificial pathways between oil and gas reservoirs and adjacent aquifers. Modification of ground water flow paths may cause fresh ground water to come in contact with oil or gas. In addition, improper disposal of waste waters (brine, storm runoff), drilling/completion fluids, and other wastes can impact the quality of underlying ground water (U.S EPA 1987).

Minor long-term direct and indirect impacts to the watershed and hydrology could continue for the life of surface disturbance from water discharge from roads, road ditches, and well pads, but would decrease once all well pads and road surfacing material has been removed and reclamation of well pads, access roads, pipelines, and powerlines have taken place. Interim reclamation of the portion of the well pad not needed for production operation, as well as re-vegetating the portion of the pad that is needed for production operations, as well as re-vegetating road ditches would reduce this long-term impact. Short-term direct and indirect impacts to the watershed and hydrology from access roads that are not surfaced with impervious materials would occur and would likely decrease in time due to reclamation efforts.

Long-term direct and indirect impacts to the watershed and hydrology could continue for the life of surface disturbance and operations, but would decrease once reclamation of well pads, access roads, pipelines, and other appurtenant facilities has taken place. Interim reclamation of the portion of the well pad not needed for production operation, as well as re-vegetating road ditches, would reduce this long-term impact.
Water depletions potentially affecting T&E aquatic species would require consultation with USFWS, and applicable point-source discharges would require permits under the National Pollution Discharge Elimination System (NPDES) and approval by the BLM prior to disposal of water produced from federal oil and gas leases; potential impacts would be mitigated at that time.

Underground waste disposal is regulated under the Underground Injection Control (UIC) program, which was authorized under the Safe Drinking Water Act. If a drilling/completion proposal is found to not be protective of usable water zones, as required by 43 CFR § 3162.5-2(d) and Onshore Oil and Gas Order No. 2, the proposal could be denied by the BLM. Requirements for groundwater monitoring have been instituted throughout Wyoming by the WOGCC. This monitoring will add a level of certainty regarding the impacts of oil and gas drilling/completion activities on groundwater in Wyoming.

The use of practices such as but not limited to closed-loop mud systems or lined reserve pits would reduce or eliminate seepage of waste fluids into the soil and eventually reaching groundwater. The casing and cementing requirements imposed on proposed wells would reduce or eliminate the potential for groundwater contamination from drilling/completion/production fluids and other surface sources. Additionally, the use of closed-loop or semi-closed loop drilling systems may be required by the BLM (see BLM-Wyoming Instruction Memorandum WY-2012-007, “Management of Oil and Gas Exploration and Production Pits”).

Stormwater Pollution Prevention Plans (SWPPs) are required by the State of Wyoming before any surface disturbance associated with construction actions greater than 1 acre in size. Prior to authorization of surface disturbance on a lease, the BLM will require a Surface Use Plan of Operations be submitted to the BLM, and the BLM authorized officer may require additional erosion control measures to reduce the volume of surface runoff and subsequent sediment transport. Upon abandonment of the wells and/or when access roads are no longer in service, the BLM will require surface reclamation of the disturbed areas as described in Standard Lease Term No. 6 and in accordance with the approved APD or Sundry Notice.

One whole parcel (180) and portions of 3 parcels (177, 218 and 220), containing approximately 2,27.20 acres, which overlap the water supply recharge area for the Town of Superior are deferred pending completion of the RS RMP revision.
The act of offering, selling, and issuing federal oil and gas leases does not produce impacts to vegetation. Impacts to vegetation may occur if a lease is issued and the lease is developed. The potential site-specific impacts would be considered by the BLM, including at an onsite inspection, before surface-disturbing activities associated with federal lease operations are authorized.

Should lease operations occur on any of the proposed parcels, the related surface disturbance would result in short- and long-term losses of vegetation. Short-term vegetation loss would include all initial surface disturbance associated with the project until those portions of the well pad and associated roads are no longer needed for production operations, and any associated pipeline disturbances. Long-term vegetation loss would include those portions of the well pad and roads needed for production operations for the life of the well and travel path and shoulders of the access roads. Both short- and long-term losses of vegetation would result in a commensurate reduction in forage available for wildlife and livestock. Vegetation loss could also potentially cause a reduction in nesting habitat for ground- or shrub-nesting avian species, and a loss of hiding cover for certain avian and mammal species.

The BLM will require compliance with the Surface Use Plan of Operations and its reclamation plan, which will be evaluated in accordance with the BLM-Wyoming’s Reclamation Policy. Lease Stipulation No. 2 is applied for protection of sensitive plants and sensitive species wildlife habitats and could include measures to minimize impacts to vegetation and special status species habitats from future development activities.

The construction of an access road and well pad may unintentionally contribute to the establishment and spread of noxious or invasive weeds. Weed seed or material could be carried to and from the project areas by construction equipment, the drilling rig and transport vehicles, or vehicles and equipment associated with well production activities.

Where weed populations are present, the BLM may require a pest management plan under Onshore Oil and Gas Order No. 1. The BLM may require that certain measures be taken to mitigate potential impacts from spread of weeds. Washing and decontaminating the equipment entering and exiting the construction areas could be used to avoid spread of weeds. Additionally, seed mixes used for reclamation are required to be certified weed-free.

Site-specific surveys for special status plants and/or T/E plant species may be required at the time operations are proposed, to determine the presence/absence of special status plant species or their habitats, and to determine if mitigation measures are necessary. Habitat containing threatened, endangered, proposed, and candidate plant species, as well as those plants listed on the Wyoming-BLM sensitive species list, could limit the location of proposed operations and USFWS consultation could be required if designated critical habitats have the potential to be adversely affected. The sensitive species habitat would be avoided where possible and, in situations where these areas would not be avoided, additional mitigation may be required.

For operations occurring on split estate lands, allowable impacts to those surface uses would be negotiated with the landowner at the time operations are proposed, if the parcels are sold and leases issued. In accordance with Onshore Order #1, the operator must negotiate a surface use agreement in good faith with the landowner. If an agreement cannot be reached, the Operator may submit a bond under the Stockraising and Homestead Act (where patented under the SHRA) to cover damages to any agricultural improvements. Submittal of that bond can be appealed by the landowner if there is disagreement as to the amount of the bond and the potential monetary value of the potential damages to agricultural improvements.

4.2.8 Wildlife, Fish, and Special Status Species (Plants and Animals)

If the proposed parcels are leased, and if subsequent exploration and development operations are proposed, the operations could result in surface-disturbing and disruptive activities. The operations could result in population impacts and habitat fragmentation and loss.

If operations are proposed, the BLM may require additional mitigation measures in order to manage plant and wildlife habitats on public lands in support of the applicable State or Federal management objectives.

Site-specific surveys for special status plants and wildlife may be required at the time operations are proposed to determine the presence/absence of important plant and wildlife resources, including special status species such as nesting birds, sensitive plants, sensitive mammals, amphibians and reptiles.

Well pad, road, and pipeline development in undisturbed areas, could result in habitat fragmentation and direct mortality of wildlife and plant species. Short-term habitat loss would include initial surface disturbance associated with the project. This short-term disturbance typically would be ongoing until those portions of a well pad not needed for production operations, road disturbance outside the shoulders, and the pipeline disturbance are reclaimed. Long-term habitat loss would include those portions of the pad needed for production operations for the life of the well and the running surface of the access roads. Impacts from surface-disturbing activities may also include behavioral changes from increased human activity associated noise and fragmentation.
Impacts to streams, fisheries, riparian habitat, and aquatic species would be mitigated through application of the requirements in Lease Notice No. 1 or special lease stipulations.

As required by the applicable RMPs, wildlife impacts are mitigated through NSO, TLS, and/or CSU stipulations. See Attachment 5.1. In the event the proposed leases are issued and lease operations are proposed, BMPs such as directional and/or horizontal drilling, habitat avoidance, and consolidation of infrastructure may be implemented to mitigate site-specific impacts to wildlife and their habitats. Additionally, the BLM would coordinate with the WGFD and consider their guidelines (such as those in “Recommendations for Development of Oil and Gas Resources within Crucial and Important Habitat” (2010)).

4.2.8.1 Special Status Species

As required by the applicable RMPs, wildlife impacts are mitigated through NSO, TLS, and/or CSU stipulations. See Attachment 5.1. Standard Lease Stipulation No. 2 is applied to all leases and provides protection for current and future threatened, endangered, and special status species:

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. The 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. The 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.

Water depletions for well pad and road construction, well drilling, well completion operations, pipeline hydrostatic testing, and dust abatement could potentially reduce stream flows in the Colorado and Platte River systems, potentially affecting threatened or endangered fish, wildlife and plant species that depend on habitats associated with those river systems. All depletions in these river systems are subject the Fish and Wildlife Service (FWS) mitigation requirements (including potential depletion fund payments); specific project proposals may be required to undergo consultation with the FWS before any project approval.

4.2.8.2 Greater Sage-Grouse

Approximately 46% of the proposed parcel acreage is located within PHMAs. See Attachment 5.4 for Greater Sage-grouse parcel maps.

All parcels offered in this sale include Standard Lease Notice 3:

The lease may in part, or in total, contain important Greater sagegrouse habitats as identified by the BLM, either currently or prospectively. The operator may be required to implement specific measures to reduce impacts of oil and gas operations on the Greater Sage-grouse populations and habitat quality. Such measures shall be developed during the Application for Permit to Drill (APD) on-site and environmental review process and will be consistent with the lease rights granted.

Parcels offered in PHMAs, GHMAs, Connectivity areas, and/or Winter Concentration Areas will be offered subject to the appropriate Greater Sage-grouse stipulations (see Attachment 5.1), in conformance with the BLM’s recent RMP revisions and amendments to provide for conservation of Greater Sage-grouse and their habitats.

The BLM recently initiated an amendment to its Greater Sage-grouse RMPs, including the RMPs governing public lands in Wyoming (https://goo.gl/22jKE2). The 90-day public comment period on the Draft RMP amendment and draft EIS will end on August 2, 2018, or 15 days after the last public meeting is held, whichever occurs last. Until the RMPs are amended, the BLM will continue to ensure its implementation decisions (including this lease sale) conform to the approved RMP.

Impacts associated within offering these lands are consistent with those analyzed in the applicable RMP. Not offering three whole parcels and portions of four more in the Sweetwater County Growth Management area would remove 9,782 acres in GHMA from this sale.

4.2.8.3 Big Game

If the proposed parcels located in the known and mapped mule deer migration corridors are leased, and if operations are authorized by the BLM, oil and gas activities may adversely affect use of the migration corridors by mule deer. Consistent with
or mitigated. If avoidance or mitigation is not possible, proposals may be modified or denied. To be historic properties (sites that are listed on or are eligible for listing on the National Register of Historic Places) are avoided. Specific cultural records review is completed to determine if there is a need for cultural inventory for areas affected by surface-disturbing activities on the federal lease. When the BLM receives an APD or other proposal for lease operations, a site-specific cultural inventory will be required and all identified historic and archaeological sites that are eligible for listing in the National Register of Historic Places or potentially eligible to be listed will be either avoided by the undertaking, have adverse effects to sites minimized or mitigated, or have the information in the sites extracted through archaeological data recovery before surface disturbance. Offering lease parcels for sale would not, in and of itself, impact historic or prehistoric resources. Development within the viewshed of contributing segments of National Historic Trails (NHT) could impact the trail setting; however, the extent of potential impacts cannot be determined absent a site-specific proposal for operations.

If the proposed leases are issued and the BLM receives a proposal for lease exploration and development operations, a cultural records review would be completed to determine if there is a need for a detailed cultural inventory of those areas that could be affected by the subsequent surface disturbing activities. Generally, a cultural inventory will be required and all identified historic and archaeological sites that are eligible for listing in the National Register of Historic Places or potentially eligible to be listed would be either avoided by the undertaking, have adverse effects to sites minimized or mitigated, or have the information in the sites extracted through archaeological data recovery before surface disturbance. Offering lease parcels for sale would not, in and of itself, impact historic or prehistoric resources. Development within the viewshed of contributing segments of National Historic Trails (NHT) could impact the trail setting; however, the extent of potential impacts cannot be determined absent a site-specific proposal for operations.

A site and resource inventory and mitigation process similar to that described for cultural resources also applies to paleontological resources. Section 106 of the National Historic Preservation Act (NHPA) requires federal agencies to take into account the effects of their undertakings on historic properties. Compliance with Section 106 of the NHPA is a non-discretionary action that all federal agencies must perform. The RMPs considered known important cultural sites in identifying stipulations. The implementing regulations at 36 CFR § 800 allow for a phased approach to compliance with the NHPA. Since it is impossible to determine the type and extent of surface disturbance associated with oil and gas development at the leasing stage, BLM completes its compliance responsibilities when a proponent submits an APD or other application for surface-disturbing activities on the federal lease. Due to this approach, BLM may not be aware of all cultural resources that are located in the proposed lease parcels, though the BLM would complete its phased compliance with NHPA at the time site-specific lease operations are proposed.

Cultural resource specialists review each parcel, including BLM and State Historic Preservation Officer (SHPO) record and file searches for known sites in or near each parcel. When the BLM receives an APD or other proposal for lease operations, a site-specific cultural records review is completed to determine if there is a need for cultural inventory for areas affected by surface-disturbing activities; if so, cultural resource inventory is required prior to new surface disturbance. All sites that are determined to be historic properties (sites that are listed on or are eligible for listing on the National Register of Historic Places) are avoided or mitigated. If avoidance or mitigation is not possible, proposals may be modified or denied.
Indirect effects that might result, should exploration or development of the leases occur, could include increased employment and surface lands would be at the discretion and under the control of the private landowner. These effects could be diminished by noise and changes in scenic quality arising from oil and gas operations. Recreational activities on split public land where there is public access could be impacted by oil and gas operations. The quality of the recreational experience could be limited or non-existent due to access restrictions. Recreational use on larger blocks of public land and on smaller blocks of state, and county governments related to lease payments, royalty payments, severance taxes, and property taxes. Other effects could include the potential for an increase in transportation, roads, and noise disturbance associated with development, and potential for change in property values due to development. These effects would apply to all public land users in the study area, and surface owners above and adjacent to the proposed lease parcels. The BLM recognizes that economic activity associated with protection of recreational settings. Additional mitigation, such as seasonal restrictions, directional drilling, and liquids gathering systems, could be identified at the development stage to further reduce impacts associated with oil and gas development.

The applicable lease stipulations shown in Attachment 5.1 will apply to the proposed parcels, and may include restrictions on surface use or occupancy within certain potential fossil yield classification areas for the protection of fossil resources.

Deferral of four parcels, whole or in part, pending completion of Tribal Consultation, or an RMP amendment in the KFO, will allow the BLM to fulfill its obligations to consult with affected Tribes, and identify any additional management actions that are necessary to protect the features located within the subject parcels.

4.2.10 Recreation

The act of offering, selling, and issuing federal oil and gas leases does not produce impacts to the recreational use of public land. Subsequent exploration or development of a lease may generate impacts to recreation activities.

For split estate lands or public land parcels that are small or land-locked by private or state land, recreation opportunities would be limited or non-existent due to access restrictions. Recreational use on larger blocks of public land and on smaller blocks of public land where there is public access could be impacted by oil and gas operations. The quality of the recreational experience could be diminished by noise and changes in scenic quality arising from oil and gas operations. Recreational activities on split estate lands would be at the discretion and under the control of the private landowner.

Indirect effects that might result, should exploration or development of the leases occur, could include increased employment opportunities related to the oil and gas and service support industry in the region as well as the economic contributions to federal, state, and county governments related to lease payments, royalty payments, severance taxes, and property taxes. Other effects could include the potential for an increase in transportation, roads, and noise disturbance associated with development, and potential for change in property values due to development. These effects would apply to all public land users in the study area, and surface owners above and adjacent to the proposed lease parcels. The BLM recognizes that economic activity associated with tourism and recreation can be an important contribution to local communities and their economies.

Potential impacts resulting from oil and gas development can be concerns for communities that promote recreation and tourism. Oil and gas exploration, drilling, or production, would potentially inconvenience visitors through increased traffic and traffic delays, noise, and visual impacts. The level of inconvenience would depend on the activity affected, traffic patterns within the area, noise levels, the length of time and season in which these activities occurred, and other factors. Increased truck traffic hauling heavy equipment, fracking fluids, and water as well as increased traffic associated with oil workers and increased populations could cause more traffic congestion, increase commuting times, and affect public safety. Additionally, impacts to visitors could include reduction of current viewsheds, dark night skies, and soundscapes.

Oil and gas operations could also cause game animals to move away from the activity. If lease development operations coincide with hunting season, it is expected that hunters could experience reduced success rates. It is also likely that some hunters would experience a diminished quality in their hunting adventure. In addition to facilitating mineral extraction, new oil and gas roads could provide better access to the lease areas for recreational opportunities but can also result in increased poaching activities or wildlife harassment. The presence of oil and gas facilities would likely diminish the recreational experience and a decline in recreational use of an area due to oil and gas development would potentially affect local, state, and regional revenues generated through recreation.

Parcels offered for sale are subject to the stipulations and lease notices shown in Attachment 5.1, including those for the protection of recreational settings. Additional mitigation, such as seasonal restrictions, directional drilling, and liquids gathering systems, could be identified at the development stage to further reduce impacts associated with oil and gas development.
4.2.11 Visual Resource Management (VRM)

It is not possible to accurately predict the visual impacts of oil and gas development operations at the leasing stage. Development intensity, terrain, and proximity to key observation points will greatly influence the VRM impacts. For the areas proposed for leasing, the proposed action of leasing parcels would not change the existing landscape. Lease sales do not authorize wells to be drilled prior to issuance of an APD, which requires project-specific application to the BLM and environmental analysis. If a lease were to go into production in areas that already have high levels of human modification, the proposed action would introduce visual contrasts but at limited levels given the context of the project area, the level of existing development, and the use of best management practices (BMPs). If leases were developed, structures associated with this activity could be introduced on the landscape such as roads, pads, buildings, and pump infrastructure potentially creating contrasts in form, texture, color, and line at varying levels. The activity would introduce noise from vehicles and equipment during construction and would continue to a lesser degree when construction is completed.

Night skies can be impacted due to artificial lighting. During construction and the drilling phase of a site, artificial lighting would be at its highest level. These lighting impacts are generally short term. Typically, well locations do not have permanent lighting; however, there would be changes to the current conditions and the addition of BMP’s would need to be evaluated at the APD stage to minimize the contrast. Physical changes evaluated at the APD phase would consider the introduction of contrasts in line, color, form and texture.

Parcels offered for sale are subject to the stipulations shown in Attachment 5.1, such as protection of VRM Class I and II areas, where applicable. Should leases be issued and operations proposed, the BLM will review the site-specific proposal to ensure conformance with the applicable RMP VRM designations and management decisions. At that time, the BLM may require mitigation to address VRM impacts, such as siting and the use of existing landscape features, coloration of above-ground facilities and/or the use of low-profile tanks, where necessary. Visual simulations are required in VRM II areas to ensure that the class setting can be achieved during drilling and production operations.

As a result of issuance of the Rawlins VRM RMP amendment on October 3, 2018 a CSU for the protection of VRM II areas has been added to parcels: 25, 27, 28, 33-39, 87-95, 106-113, and 118.

4.2.12 Socioeconomics, Environmental Justice, and Public Health and Safety

4.2.12.1 Socioeconomics

In addition to the one-time bonus bids, leasing these parcels for federal mineral exploration would generate rental revenues. If oil and gas production were to begin on any of these leased parcels over the next 10 years, annual rent payments on the parcel held by production would stop, and lessees would instead pay royalties the market value production on that lease. Annual royalty payments on leased parcels would be equal to 12.5% of the value of annual production.

As discussed in above, approximately 51% of revenues generated from the leasing, rents, and production of minerals leased at the subject lease sale would go directly to the U.S. Treasury. The remaining 49% would be distributed to Wyoming and allocated based on its legislatively established two-tier formula to public school districts, the highway and county road fund, cities and towns, the University of Wyoming, capital construction projects, and the state’s budget reserve account.

While the act of leasing federal minerals under this alternative would not result any direct surface disturbances, subsequent development of a lease may affect how local residents and land users access, use, develop, and enjoy lands in the vicinity of these leases. As a result, future development may impact the socioeconomic values people derive from these natural landscapes.

Oil and gas exploration, drilling, or production could create additional inconvenience to local businesses and residents due to increased traffic and traffic delays, noise and visual impacts. This would likely be most noticeable in rural areas where oil and gas development has been minimal. The amount of inconvenience would depend on how other land uses are affected, traffic patterns within the area, noise levels, length of time, and season these activities occurred, etc. Creation of new access roads into an area could allow increased public access and potential exposure of private property to vandalism. For split estate leases where the surface is privately owned and the subsurface is federally-owned, surface access agreements, standard lease stipulations, and BMPs could address many of the concerns of private surface owners.

Refer to the applicable RMP FEISs, including Section 4.11 of the ARMPA FEIS (beginning on page 4-134) for additional discussion of potential socioeconomic impacts.

4.2.12.2 Environmental Justice

Some of the counties where leases would be offered may have minority and/or low-income populations that meet the criteria to be considered environmental justice populations. The act of leasing federal minerals would not disproportionately adversely
affect environmental justice populations. Potential future impacts associated with oil and gas development could potentially disproportionately adversely affect environmental justice populations depending upon the location and level of activity, which is unknown at this time. The BLM considers input from persons or groups regardless of age, income status, race, or other social or economic characteristics.

4.2.12.3 Public Health and Safety

The act of offering, selling, and issuing federal oil and gas leases does not produce impacts to public health and safety. Subsequent development of a lease may cause impacts. Vehicle and equipment operations associated with the subsequent construction, drilling, and production operations could affect members of the public using the same roads and general areas and/or the employees of the oil and gas drilling, completion or services companies. Releases of gas from the well bore, production facilities and spills could adversely affect members of the public in the vicinity as well as members of the workforce. The level of affect would depend on the circumstances and the technological and safety controls in place.

Split estate lands have the potential for the presence or future development of private residences and associated facilities such as domestic water supply wells. Residences along routes to, or in the vicinity of, active drilling and completion operations would likely experience increased traffic and noise, as well as night lighting. Traffic and drilling operations in close proximity to residences would increase the potential for collisions with the residents, pets, and livestock, as well as an increased potential for fire, hydrocarbon release, and explosions from well blow-out during drilling operations. None of the parcels are located within incorporated areas.

The BLM will require the operator to comply with Onshore Oil and Gas Order No. 2, 43 CFR § 3162.5-1, and all requirements for reporting undesirable events under NTL-3A.

BLM Wyoming has issued policy (IM WY-2015-054, “Fluid Minerals Operations - Mitigation and Setbacks from Occupied Structures”) to address setbacks from occupied structures when proposed at the time of lease operations. In addition, other Federal and State of Wyoming public health and safety requirements apply to oil and gas operations.

According to the Green River RMP ROD, pg 12, “Prior to issuing Federal mineral leases in areas around or adjacent to local communities or occupied dwellings, community and county governments will be consulted to obtain input and direction to protect public health and safety. Unleased lands in such areas may be offered for lease with an NSO stipulation or if the areas are too large for directional drilling, they may remain unleased.”

Based on comments received from Sweetwater County as a cooperating agency on the RS RMP revision, parcels 260, 261, 300-302, 674 and 675 (whole or in part) containing approximately 9,682.97 acres, will not be consistent with the Green River RMP. The three whole parcels not being offered are located in GHMA. A portion of parcel 675 was deleted because the lands are not available per the existing Green River RMP ROD.
4.3 BLM-Lease All Alternative

The impacts of this alternative would be above and beyond those identified for the Proposed Action Alternative, and would result in unresolved conflicts if the 106 parcels proposed for deferral (whole or in part) are offered and sold and if the three whole parcels (300, 301 and 674) and portions of five parcels (260, 261, 302, 639 and 675) are offered. The parcels that are not going to be offered are in conflict with the underlying RMP (Bighorn Basin ROD decision 2038), or the RMP allows for them to not be offered (Green River RMP ROD pg. 12).

4.3.1 Socioeconomics

For socioeconomics under the BLM-Lease All Alternative, there would be an increase in bonus bid revenues and rentals due to offering of an additional 181,421.46 acres if the lands were offered and sold.

4.4 Cumulative Impacts

The BLM holds quarterly oil and gas lease sales, in compliance with the law and our regulations. As a result, numerous oil and gas lease sale parcels are being considered on the public lands around the West at any given time (among other land use plan implementation decisions). The RMP FEISs to which this EA tiers address potential cumulative effects, including as a result of other reasonably foreseeable future actions outside of their respective planning areas. Items of special interest are addressed below. Attachment 5.6 includes a White Paper on Hydraulic Fracturing and water availability/use, and is incorporated by reference. Attachment 5.6 concludes that there are adequate water supplies available to support the projected oil and gas RFD on a field office and statewide basis.
### 4.4.1 Greater Sage-grouse

There are approximately 15,910,253 acres of PHMA in the State of Wyoming. Of this acreage, approximately 1,341,256.11 acres is under Federal lease (8.4%) as of June, 2018. An additional approximately 200,000 acres was offered in the 3rd Quarter 2018 sale. The cumulative addition of the proposed acreage to be offered (and if sold) would create additional, contractual rights. These new rights would be subject to a Controlled Surface Use limiting the density and disturbance to a maximum of 5% of the DDCT analysis acreage. As noted in Section 3.10.2, leasing in PHMA units has declined 74% since implementation of the Core Area Strategy in 2008. Impacts (direct and/or indirect) beyond those analyzed in the underlying RMP FEIS’ and the ARMPA FEIS, are not expected due to the continual expiration of existing federal leases whether because they lack production in paying quantities or are never explored. Additional coordination with WGFD will occur for all projects proposed in Greater Sage-grouse habitats as determined necessary, and in accordance with the BLM-WGFD interagency MOU. See Attachment 5.4 for relevant maps.

### 4.4.2 Big Game

There are over 16.6 million acres of big game crucial winter range (CWR) in the State of Wyoming. Of this amount, approximately 6,335,000 acres is Mule Deer CWR, 5,973,000 acres is Antelope CWR, and 834,000 acres is Elk CWR.

As of April 2018, 9.2% of mule deer CWR is currently under Federal lease (582,723 acres), 15.6% of antelope CWR is under Federal lease (934,351 acres), and 7.2% of elk CWR is under Federal lease (312,381 acres). As a result of lease sales held in the 2nd and 3rd Quarter, 2018, approximately 209,000 acres of mule deer CWR, 61,600 acres of antelope CWR and 31,370 acres of elk CWR were offered for lease. While numbers aren’t currently available, multiple leases have also terminated under operation of law since April of 2018 likely resulting in very little overall increased acreage in these habitats.

Additionally, of the 834,142.7 acres within State of Wyoming designated mule deer migration corridors, 47,951 acres (5.75%) is under Federal lease. Additional private and state leases may also be in place. Impacts (direct and/or indirect) beyond those analyzed in the underlying RMP FEIS is not expected due to the continual expiration of existing federal leases whether because they lack production in paying quantities or are never explored. Additional coordination with WGFD will occur for all projects proposed in CWR and migration corridors as determined necessary, and in accordance with the BLM-WGFD interagency MOU. See Attachment 5.4 for relevant maps.

Between the Third Quarter and 4th Quarter sales, the vast majority of the mule deer corridor remains unleased and closed to oil and gas development.
5. Attachments
5.1 Lease Sale Parcel List with Proposed Stipulations and Noted Deletions/Deferrals

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<th>Parcel ID</th>
<th>Acres</th>
<th>Description</th>
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<td>and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to</td>
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<td>functionality, such as those contained within the &quot;Wyoming Game and Fish</td>
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<td>setting contributing to the National Register of Historic Places eligibility</td>
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<td>unless the operator and surface managing agency arrive at an acceptable plan</td>
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<td>for mitigation of anticipated impacts; (2) as mapped on the Rawlins Field</td>
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<td>Office GIS database; (3) protecting the habitats of identified amphibian/</td>
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<tr>
<td></td>
<td></td>
<td>reptile species.</td>
</tr>
</tbody>
</table>

DOI-BLM-WY-0000-2018-0004-EA 5-2
managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting historic and visual values of the Cherokee Trail.

WY-184Q-004 800.000 Acres
T.0140N, R.0900W, 06th PM, WY Sec. 025 NW; 026 ALL; Carbon County Rawlins FO Formerly Lease No. Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 WY_SW_TLS_PHMAL WY_SW_TLS_PHMAWCA TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting nesting Raptors.

WY-184Q-005 960.960 Acres
T.0150N, R.0900W, 06th PM, WY Sec. 001 LOTS 7,8; 002 LOTS 5-8; 002 S2NW; Carbon County Rawlins FO Formerly Lease No. Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 WY_SW_TLS_GHMAL WY_SW_TLS_PHMAL WY_SW_TLS_PHMAWCA

*DELETE ALL (960.960 acres). Parcel 005 is within the Cow Butte/Wild Cow WHMA. The WHMA is closed to new oil and gas leasing per Dec 2008 Rawlins RMP pg. 2-34.

WY-184Q-006 1326.870 Acres
T.0150N, R.0900W, 06th PM, WY Sec. 005 LOTS 5,6; 005 S2NE; 006 LOTS 5-14; 006 SE; 007 LOTS S-8; 007 E2,E2NW,SESW; 008 NE,N2NW,SENW; Carbon County Rawlins FO Formerly Lease No. Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 WY_SW_TLS_GHMAL WY_SW_TLS_PHMAL WY_SW_TLS_PHMAWCA WY_SW_CSU_PHMA

*DELETE ALL (1326.870 acres). Parcel 006 is within the Cow Butte/Wild Cow WHMA. The WHMA is closed to new oil and gas leasing per Dec 2008 Rawlins RMP pg. 2-34.

WY-184Q-007 440.000 Acres
T.0150N, R.0900W, 06th PM, WY Sec. 010 W2SE,SESE; 011 E2; Carbon County Rawlins FO Formerly Lease No. Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 WY_SW_TLS_PHMAL WY_SW_TLS_PHMAWCA WY_SW_CSU_PHMA

*DELETE ALL (440.000 acres). Parcel 007 is within the Cow Butte/Wild Cow WHMA. The WHMA is closed to new oil and gas leasing per Dec 2008 Rawlins RMP pg. 2-34.

WY-184Q-008 560.000 Acres
T.0150N, R.0900W, 06th PM, WY Sec. 012 W2; 014 NE,NENW,NESE; Carbon County Rawlins FO Formerly Lease No. Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 WY_SW_NSO_GHMAL WY_SW_NSO_PHMAL

*DELETE ALL (560.000 acres). Parcel 008 is within the Cow Butte/Wild Cow WHMA. The WHMA is closed to new oil and gas leasing per Dec 2008 Rawlins RMP pg. 2-34.

WY-184Q-009 1920.000 Acres
T.0150N, R.0900W, 06th PM, WY Sec. 015 ALL; 021 ALL; 022 ALL; Carbon County Rawlins FO Formerly Lease No. Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 WY_SW_TLS_PHMAL WY_SW_TLS_PHMAWCA WY_SW_CSU_PHMA

*DELETE ALL (1920.000 acres). Parcel 009 is within the Cow Butte/Wild Cow WHMA. The WHMA is closed to new oil and gas leasing per Dec 2008 Rawlins RMP pg. 2-34.

WY-184Q-010 2479.670 Acres
T.0150N, R.0900W, 06th PM, WY Sec. 017 ALL; 018 LOTS 5-8; 018 E2,E2W2; 019 LOTS 5-8; 019 E2,E2W2; 020 ALL; Carbon County Rawlins FO Formerly Lease No. Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 WY_SW_NSO_GHMAL WY_SW_NSO_PHMAL

*DELETE ALL (2479.670 acres). Parcel 010 is within the Cow Butte/Wild Cow WHMA. The WHMA is closed to new oil and gas leasing per Dec 2008 Rawlins RMP pg. 2-34.
34. The WHMA is closed to new oil and gas leasing per Dec 2008 Rawlins RMP pg. 2-34.

WY-184Q-011 240.000 Acres
T.0150N, R.0900W, 06th PM, WY
032 NW;
Carbon County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-013 2297.700 Acres
T.0150N, R.0900W, 06th PM, WY
027 N2,SW,N2SE,SWSE; 028 ALL;
029 ALL;
030 LOTS 5,6;
Carbon County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-014 80.000 Acres
T.0150N, R.0900W, 06th PM, WY
028 ALL;
029 E2,W2, N2SW;
030 LOTS 5,6;
Carbon County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

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

T.0160N, R.0900W, 06th PM, WY

Lease Notice No. 3
Lease Notice No. 2

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

T.0160N, R.0900W, 06th PM, WY

Lease Notice No. 1

TLS (1) Apr 15 to Sep 15; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting nesting Burrowing owls.

T.0160N, R.0900W, 06th PM, WY

CSU   (1) Surface occupancy or use may be restricted or prohibited within the setting contributing to the National Register of Historic Places eligibility unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting historic and visual values of the Cherokee Trail.

*DELETE IN PART (40.000 acres). The following portions of Parcel 014 are within the Cow Butte/Wild Cow WHMA. The WHMA is closed to new oil and gas leasing per Dec 2008 Rawlins RMP pg. 2-34.

T.0150N, R.0900W, 06th PM, WY

Lease Notice No. 3
Lease Notice No. 2

Lease Notice No. 1

Stipulations:

Formerly Lease No.
Rawlins FO
Carbon County

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

Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

Stipulation No. 3

Lease Stipulation No. 2

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Lease Notice No. 2
Lease Notice No. 3

Stipulation No. 2

Stipulation No. 1

Stipulation No. 3

Formerly Lease No.

Formerly Lease No.

*DELETE ALL (1440.000 acres). Parcel 016 is within the Cow Butte/Wild Cow WHMA. The WHMA is closed to new oil and gas leasing per Dec 2008 Rawlins RMP pg. 2-34.

T.0180N, R.0900W, 06th PM, WY

Lease Notice No. 3
Lease Notice No. 2

Lease Notice No. 1

Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

Formerly Lease No.

T.0150N, R.0900W, 06th PM, WY

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Stipulations:

Formerly Lease No.

Formerly Lease No.

*DELETE ALL (1282.630 acres). Portions of parcel 015 are within the Upper Muddy Creek/Grizzly WHMA and the Cow Butte/Wild Cow WHMA. These WHMAs are closed to new oil and gas leasing per Dec 2008 Rawlins RMP pg. 2-34.

T.0160N, R.0900W, 06th PM, WY

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Stipulation No. 3

Lease Notice No. 2

Lease Notice No. 3

Stipulation No. 2

Stipulation No. 1

Stipulation No. 3

Formerly Lease No.

T.0200N, R.0900W, 06th PM, WY

Sec. 002 LOTS 5-8;
002 S2;
004 SE,S2SW;
004 LOTS 1-4,N2SW(EXCL 24.33
004 AC IN RR ROW

WYW0200644);
006 LOTS 1-6;
006 E2SW,N2SE,S2SE;
006 SESE(EXCL 3.21 AC IN RR
006 ROW WYW0200644);
008 ALL;
Sweetwater and Carbon Counties

DOI-BLM-WY-0000-2018-0004-EA 5-4
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting historic and visual values of the Lincoln Highway/UPRR Grade historic property.

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 Rawlins Field Office GIS database; (3) protecting historic and visual values of the Lincoln Highway/UPRR Grade historic property.

WY-184Q-019 2558.680 Acres
T.0230N, R.0900W, 06th PM, WY
Sec. 002 LOTS 1-4;
002 S2N2,52;
004 LOTS 1-4;
004 S2N2,52;
006 LOTS 1-7;
006 S2NE,SENW,E2SW,SE;
008 ALL;
Sweetwater County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHMA
WY_SW_TLS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

WY-184Q-021 643.320 Acres
T.0230N, R.0900W, 06th PM, WY
Sec. 018 LOTS 1-4;
018 E2,E2W2;
Sweetwater County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

WY-184Q-022 2234.000 Acres
T.0230N, R.0900W, 06th PM, WY
Sec. 020 ALL;
022 ALL;
024 ALL(EXCL 326.00 AC IN
024 RSRV ROW WYC042464);
026 ALL;
Sweetwater County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting nesting Raptors.

WY-184Q-023 1920.000 Acres
T.0230N, R.0900W, 06th PM, WY
Sec. 010 ALL;
012 ALL;
014 ALL;
Sweetwater County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting big game crucial winter range.

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 Rawlins Field Office GIS database; (3) protecting historic and visual values of the Lincoln Highway/UPRR Grade historic property.

WY-184Q-024 1920.000 Acres
T.0230N, R.0900W, 06th PM, WY
Sec. 020 ALL;
022 ALL;
024 ALL(EXCL 326.00 AC IN
024 RSRV ROW WYC042464);
026 ALL;
Sweetwater County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting nesting Raptors.

WY-184Q-025 1920.000 Acres
T.0230N, R.0900W, 06th PM, WY
Sec. 018 LOTS 1-4;
018 E2,E2W2;
Sweetwater County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting nesting Mountain plover.

CSU (1) Surface occupancy or use will be restricted or prohibited unless
operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

WS-184Q-023 1920.000 Acres
T.0230N, R.0900W, 06th PM, WY
Sec. 028 ALL; 032 ALL; 034 ALL;
Sweetwater County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WS_SW_TLS_PHMAL
WS_SW_TLS_PHMAWCA
WS_SW_CSU_PHMA
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rawlins 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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

WS-184Q-025 1926.870 Acres
T.0240N, R.0900W, 06th PM, WY
Sec. 003 LOTS 1-4;
003 52N2,S2;
004 52N2,S2;
005 LOTS 1-4;
005 52N2,S2;
Sweetwater County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WS_SW_TLS_PHMAL
WS_SW_TLS_PHMAWCA
WS_SW_CSU_PHMA
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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

WS-184Q-027 2560.000 Acres
T.0240N, R.0900W, 06th PM, WY
Sec. 008 ALL;
009 ALL;
010 ALL;
011 ALL;
Sweetwater County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WS_SW_NSO_PHMAL
WS_SW_TLS_PHMAL
WS_SW_TLS_PHMAWCA
WS_SW_CSU_PHMA
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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.
Stipulations:

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

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

CSU

WY-184Q-029  2004.320 Acres
T.0240N, R.0900W, 06th PM, WY
Stipulations:

CSU

WY-184Q-030  1920.000 Acres
T.0240N, R.0900W, 06th PM, WY
Stipulations:

CSU

WY-184Q-031  643.640 Acres
T.0240N, R.0900W, 06th PM, WY
Stipulations:

CSU

WY-184Q-032  1280.000 Acres
T.0240N, R.0900W, 06th PM, WY
Stipulations:

CSU

WY-184Q-033  2492.010 Acres
T.0250N, R.0900W, 06th PM, WY
Stipulations:

CSU

WY-184Q-034  2557.520 Acres
T.0250N, R.0900W, 06th PM, WY
Stipulations:

CSU

Identified amphibian/reptile species.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY-SW_TLS_PHMAL
WY-SW_TLS_PHMAWCA
WY-SW_TLS_GHMAL
WY-SW_TLS_PHMAL
WY-SW_TLS_PHAMAWCA
WY-SW_CSU_PHMA
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting big game crucial winter range.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rawlins 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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.
CSU (1) Surface occupancy or use may be restricted or prohibited within the setting contributing to the National Register of Historic Places eligibility unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting historic and visual values of the Rawlins to Ft. Washakie Trail.

WY-SW_TLS_PHMAL
WY-SW_TLS_PHMAWCA
WY-SW_CSU_PHMA
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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.
WY-SW_TLS_GHMAL
WY-SW_TLS_PHMAL
WY-SW_TLS_PHAMAWCA
WY-SW_TLS_PHMAL
WY-SW_TLS_PHMAL
WY-SW_TLS_PHAMAWCA
WY-SW_CSU_PHMA
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting big game crucial winter range.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rawlins 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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.
CSU (1) Surface occupancy or use may be restricted or prohibited within the setting contributing to the National Register of Historic Places eligibility unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting historic and visual values of the Rawlins to Ft. Washakie Trail.

WY-184Q-038 2480.000 Acres T.0250N, R.0900W, 06th PM, WY Sec. 024 ALL; 025 ALL; 026 ALL; 027 E2NE, W2SE; Sweetwater County Rawlins FO Formerly Lease No. Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 WY-SW_TLS_PHMAL WY-SW_TLS_PHMAWCA WY-SW_TLS_GHMAL WY-SW_TLS_PHMAL WY-SW_TLS_PHAMAWCA WY-SW_CSU_PHMA TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting big game crucial winter range.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rawlins 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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.
CSU (1) Surface occupancy or use may be restricted or prohibited within the setting contributing to the National Register of Historic Places eligibility unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting historic and visual values of the Rawlins to Ft. Washakie Trail.

WY-184Q-039 1920.000 Acres T.0250N, R.0900W, 06th PM, WY Sec. 033 ALL; 034 ALL; WY-SW_TLS_PHMAL WY-SW_TLS_PHMAWCA WY-SW_CSU_PHMA 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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.
03S ALL; Sweetwater County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rawlins 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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

WY-184Q-041 2274.570 Acres
T.0130N, R.0910W, 06th PM, WY Sec. 001 LOT 5-8;
001 W2E2,W2;
002 ALL;
003 ALL;
004 N2NE,SENE,SWNW,SW,NESE;
Carbon County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Special Lease Notice: This parcel is located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridor functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting big game crucial winter range.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rawlins 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 Rawlins Field Office GIS database; (3) protecting historic and visual values of the Rawlins to Baggs Road.

WY-184Q-042 2400.000 Acres
T.0130N, R.0910W, 06th PM, WY Sec. 005 ALL;
006 ALL;
007 N2,N2S2,SWSW;
008 N2,N2SW,SESW,SE;
Carbon County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHMMAL
Special Lease Notice: This parcel is located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridor functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting big game crucial winter range.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rawlins 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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.
Defer All; Big Game Migration Corridor

WY-184Q-043 2160.000 Acres
T.0130N, R.0910W, 06th PM, WY
Sec. 009 W2,NE;SE
011 N2,SW,N2SE,SWSE;
013 NWNE,SENW,SW;
014 W2E2,W2,SESE;
015 NE,SWNW,SESW,E2SE;
Carbon County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Special Lease Notice: This parcel is located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridor functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting big game crucial winter range.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting raptor nesting habitat.
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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

WY-184Q-044 2080.000 Acres
T.0130N, R.0910W, 06th PM, WY
Sec. 017 N2NE,SENE,SESE;
018 W2E2,SENE,W2,SESE;
019 ALL;
020 ALL;
Carbon County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHMAL
Special Lease Notice: This parcel is located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridor functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting big game crucial winter range.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting 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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.
CSU (1) Surface occupancy or use may be restricted or prohibited within the setting contributing to the National Register of Historic Places eligibility unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting historic and visual values of the Rawlins to Baggs Road.

Defer All; Big Game Migration Corridor

WY-184Q-045 2042.010 Acres
T.0130N, R.0910W, 06th PM, WY
Sec. 021 ALL;
022 E2,NWNNW,SESW;
023 NWNE,W2;
024 SW;
026 NESW,SWSW;
027LOTS 3;
027 SWNW,N2SE,SESE;
028 NWNW,SWNW;
Carbon County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Special Lease Notice: This parcel is located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridor functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting big game crucial winter range.
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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.
CSU (1) Surface occupancy or use may be restricted or prohibited within the setting contributing to the National Register of Historic Places eligibility unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting historic and visual values of the Rawlins to Baggs Road.
measures (see 43 CFR 3101.1-2) to avoid designated operator will be required to Department. The lessee or their corridor designated or currently under Special Lease Notice: This parcel is Lease Stipulation No. 2

game migration corridor functionality, and minimize impacts to maintain big

Lease Stipulation No. 3

Special Lease Notice: This parcel is located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridor functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1 TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting historic and visual values of the Rawlins to Baggs Road.

WY-184Q-047 40.000 Acres
T.0140N, R.0910W, 06th PM, WY Sec. 033 SESE; Carbon County Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

Lease Notice No. 2

Lease Notice No. 3

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

WY-184Q-048 320.00 Acres
T.0150N, R.0910W, 06th PM, WY Sec. 013 LOTS 1-4; 022 024 LOTS 1-4; 024 W2E2,W2; Carbon County Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-049 520.000 Acres
T.0160N, R.0910W, 06th PM, WY Sec. 016 LOTS 1-4; 024 W2E2,W2; Defers Remainder; Big Game Migration Corridor

WY_SW_TLS_GHMA

Special Lease Notice: This parcel is located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridor functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1 TLS (1) Apr 15 to Sep 15; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting nesting Burrowing owls.

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

TLS (1) Apr 10 to Jul 10 (2) as mapped on the Rawlins Field Office GIS database; (3) protecting nesting Mountain plover.

CSU (1) Surface occupancy or use may be restricted or prohibited within the setting contributing to the National Register of Historic Places eligibility unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting historic and visual values of the Cherokee Trail.

*DELETE IN PART (1225.880 acres). The following portions of Parcel 048 are within the Cow Butte/Wild Cow WHMA. The WHMA is closed to new oil and gas leasing per Dec 2008 Rawlins RMP pg. 2-34
Stipulations:

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

WY_SW_TLS_GHMal
WY_SW_TLS_PHMal
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA

Special Lease Notice: This parcel is located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridor functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1

TLS (1) Apr 15 to Sep 15; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting nesting Burrowing owls.

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 Rawlins Field Office GIS database; (3) protecting historic and visual values of the Rawlins to Baggs Road.

CSU (1) Surface occupancy or use 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 Rawlins Field Office GIS database; (3) protecting historic and visual values within the setting of the Sand Hills/JO Ranch ACEC.

*DELETE IN PART (760.000 acres). The following portions of Parcel 049 are within the Cow Butte/Wild Cow WHMA. The WHMA is closed to new oil and gas leasing per Dec 2008 Rawlins RMP pg. 2-34. T.0160N, R.0910W, 06th PM, WY Sec. 034 NWNE, E2NE; 035 ALL

WH-184Q-050 1445.860 Acres T.0180N, R.0910W, 06th PM, WY Sec. 014 S2N2,S2; 024 LOTS 17-32; 026 ALL; Carbon County Rawlins FO Formerly Lease No. Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3

WY_SW_TLS_GHMal WY_SW_TLS_PHMal WY_SW_TLS_PHMAWCA WY_SW_CSU_PHMA

Special Lease Notice: This parcel is located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridor functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1

*DELETE ALL (1928.410). Parcel 051 is within the Upper Muddy/Grizzly WHMA. The WHMA is closed to new oil and gas leasing per Dec 2008 Rawlins RMP pg. 2-41.

WH-184Q-052 2555.580 Acres T.0240N, R.0910W, 06th PM, WY Sec. 001 LOTS 1-4; 001 S2N2,S2; 002 LOTS 1-4; 002 S2N2,S2; 003 LOTS 1-4; 003 S2N2,S2; 004 LOTS 1-4; 004 S2N2,S2; Sweetwater County Rawlins FO Formerly Lease No. Stipulations: Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_TLS_PHMAL
WY_TLS_CSU_PHMAL

TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rawlins 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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

WY-184Q-053 1241.910 Acres
T.0240N, R.0910W, 06th PM, WY
Sec. 005 LOTS 1-4;
006 S2N2.S2;
006 LOTS 1-7;
006 S2NE,SENW,E2SW,SE;
Sweetwater County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMAL
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting nesting Mountain plover.

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 Rawlins Field Office GIS database; (3) protecting the Chain Lakes WHMA unique alkaline desert wetland communities.

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 Rawlins Field Office GIS database; (3) protecting raptor nesting habitat.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

WY-184Q-054 2509.480 Acres
T.0240N, R.0910W, 06th PM, WY
Sec. 007 LOTS 1-4;
007 S2,SE2;
008 ALL;
030 LOTS 1-4;
030 S2,E2SE;
034 ALL;
Sweetwater County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMAL

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

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphians/ptile species.

WY-184Q-055 2520.000 Acres
T.0240N, R.0910W, 06th PM, WY
Sec. 009 LOTS 1-4;
010 ALL;
011 ALL;
012 N2,SE,2N2SE,SWSE;
Sweetwater County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMAL

TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting the habitats of identified amphians/ptile species.

WY-184Q-056 1240.000 Acres
T.0240N, R.0910W, 06th PM, WY
Sec. 013 W2N2,SE2N2W2;
015 ALL;
Sweetwater County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMAL

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphians/ptile species.
### Special Lease Notice: Lease No. 2

Formerly Lease No. Rawlins FO

Carbon County

- 008   W2SW,SESW;
- 005   NWNW;
- 003   ALL;
- 001   Sec. 001   ALL;
- T.0130N, R.0920W, 06th PM, WY

Special Lease Notice: This parcel is located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridor functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1

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

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

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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### Special Lease Notice: Lease No. 3

Formerly Lease No. Rawlins FO

Carbon County

- 014   ALL;
- 013   ALL;
- 012   ALL;
- 008   W2SW,SESW;
- 009   NE;
- 010   S2NE,NW,SE;

Special Lease Notice: This parcel is located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridor functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1

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

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

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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### Special Lease Notice: Lease No. 4

Formerly Lease No. Rawlins FO

Carbon County

- 017   N2NE,SEN,ENW,S2NW,S2;
- 019   LOTS 5,6;
- 019   NE,E2NW;
- 021   ALL;

Special Lease Notice: This parcel is located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridor functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1

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

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

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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### Lease Notice No. 5

Formerly Lease No. Rawlins FO

Carbon County

- 015   ALL;
- 011   ALL;
- 012   ALL;
- 013   ALL;
- 014   ALL;

Lease Notice No. 1

Lease Notice No. 2

Lease Notice No. 3

Lease Stipulation No. 1

Lease Stipulation No. 2

Lease Stipulation No. 3

WY_SW_TLS_GHMAL

WY_SW_NSO_GHMAL

WY_SW_TLS_GHMAL

WY-184Q-058 2320.000 Acres

T.0130N, R.0920W, 06th PM, WY

- Sec. 001   ALL;
- 002   NE,S2S2;
- 003   ALL;
- 005   N2NW;
- 008   W2SW,SESW;
- 009   NE;
- 010   S2NE,NW,SE;

Rawlins FO

Formerly Lease No.

Stipulations:

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

WY_SW_TLS_GHMAL

WY-184Q-059 2560.000 Acres

T.0130N, R.0920W, 06th PM, WY

- Sec. 011   ALL;
- 012   ALL;
- 013   ALL;
- 014   ALL;

Carbon County

Rawlins FO

Formerly Lease No.

Stipulations:

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

WY_SW_TLS_GHMAL

WY-184Q-060 2154.820 Acres

T.0130N, R.0920W, 06th PM, WY

- Sec. 015   ALL;
- 017   N2NE,S2N,ENW,S2NW,S2;
- 019   LOTS 5,6;
- 019   NE,E2NW;
- 021   ALL;

Carbon County

Rawlins FO

Formerly Lease No.

Stipulations:

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

WY_SW_TLS_GHMAL
Sec. 022   ALL; T.0130N, R.0920W, 06th PM, WY
024   W2;
Lease Stipulation No. 1
Lease Notice No. 1
Stipulations:
Formerly Lease No. Rawlins FO Carbon County
measures (see 43 CFR 3101.1-2) lo avoid
and Fish Department to take reasonable
work with the BLM and Wyoming Game
designated operator will be required to
located within a big game migration
Special Lease Notice: This parcel is
WY_SW_TLS_GHMAL
Special Lease Notice: This parcel is
located within a big game migration
corridor designated or currently under
review by the Wyoming Game and Fish
Department. The lessee or their
designated operator will be required to
work with the BLM and Wyoming Game
and Fish Department to take reasonable
measures (see 43 CFR 3101.1-2) lo avoid
and minimize impacts to maintain big
game migration corridor .functionality,
such as those contained within the
"Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations
proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rawlins Field Office GIS
database; (3) protecting big game
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rawlins 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 Rawlins Field Office GIS
database; (3) protecting the habitats of
identified amphibian/reptile species
CSU (1) Surface occupancy or use may be restricted or prohibited within the
setting contributing to the National Register of Historic Places eligibility
unless the operator and surface managing agency arrive at an acceptable plan for
mitigation of anticipated impacts; (2) as mapped on the Rawlins Field Office GIS
database; (3) protecting historic and visual values of the Rawlins to Baggs Road.

TLS  (1) Nov 15 to Apr 30; (2) as mapped on the Rawlins Field Office GIS
database; (3) protecting big game
crucial winter range.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rawlins 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 Rawlins Field Office GIS
database; (3) protecting the habitats of
identified amphibian/reptile species
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rawlins Field Office GIS
database; (3) protecting big game
crucial winter range.

Great plains bison (Bison bison)
(February 2016). The BLM will encourage the use of Master Development Plans for operations
proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rawlins Field Office GIS
database; (3) protecting big game
crucial winter range.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rawlins 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 Rawlins Field Office GIS
database; (3) protecting the habitats of
identified amphibian/reptile species.

WO-184Q-063  1854.930 Acres
T.0130N, R.0920W, 06th PM, WY
Sec. 033 LOTS 1-4;
033  NE, E2NW, N2S2;
034  LOTS 1-4;
034  N2,N2S2;
035  LOTS 1-4;
035  N2,N2S2;
Carbon County Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Special Lease Notice: This parcel is
located within a big game migration
corridor designated or currently under
review by the Wyoming Game and Fish
Department. The lessee or their
designated operator will be required to
work with the BLM and Wyoming Game
and Fish Department to take reasonable
measures (see 43 CFR 3101.1-2) lo avoid
and minimize impacts to maintain big
game migration corridor .functionality,
such as those contained within the
"Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations
proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rawlins Field Office GIS
database; (3) protecting big game
crucial winter range.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rawlins 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 Rawlins Field Office GIS
database; (3) protecting the habitats of
identified amphibian/reptile species.

WO-184Q-062  1595.230 Acres
T.0130N, R.0920W, 06th PM, WY
Sec. 026 ALL;
027  N2;
029  S2;
030  LOTS 5,6;
030  NE,E2NW;
Carbon County Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Special Lease Notice: This parcel is
located within a big game migration
corridor designated or currently under
review by the Wyoming Game and Fish
Department. The lessee or their
designated operator will be required to
work with the BLM and Wyoming Game
and Fish Department to take reasonable
measures (see 43 CFR 3101.1-2) lo avoid
and minimize impacts to maintain big
game migration corridor .functionality,
such as those contained within the
"Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations
proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rawlins Field Office GIS
database; (3) protecting big game
crucial winter range.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rawlins 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 Rawlins Field Office GIS
database; (3) protecting the habitats of
identified amphibian/reptile species.
arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species. Defer All; Big Game Migration Corridor

**WY-184Q-064** 640.000 Acres
T.0160N, R.0920W, 06th PM, WY
Formerly Lease No. Rawlins FO
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

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

**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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

**WY-184Q-066** 320.000 Acres
T.0120N, R.0930W, 06th PM, WY
Formerly Lease No. Rawlins FO
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

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

**WY-184Q-067** 2392.490 Acres
T.0130N, R.0930W, 06th PM, WY
Formerly Lease No. Rawlins FO
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

**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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.
(3) protecting historic and visual values of the Cherokee Trail.

WY-184Q-068 1282.610 Acres
T.0130N, R.0930W, 06th PM, WY
Sec. 004 LOTS 1-4;
004 S2N2, S2;
009 ALL;
Carbon County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_SW_TLS_GHMAL
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting raptor nesting habitat.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

WY-184Q-071 960.000 Acres
T.0130N, R.0930W, 06th PM, WY
Sec. 027 S2;
028 S2;
032 S2;
Carbon County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_SW:NSO_GHMAL
WY_SW_TLS_GHMAL
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rawlins 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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.
acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting historic and visual values of the Overland Trail.

**Wy-184Q-072** 1078.820 Acres
T.0130N, R.0930W, 06th PM, WY
Sec. 030 LOTS 3,4; 030 NESW,SE; 034 S2S2; 035 ALL; Carbon County
Rawlins FO
Formerly Lease No. 1
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHML

Special Lease Notice: This parcel is located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridor functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1

NSO (1) as mapped on the Rawlins Field Office GIS database; (2) protecting historic values within 1/4 mile of contributing segments of the Cherokee Trail.

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

**WS-184Q-073** 76.970 Acres
T.0210N, R.0940W, 06th PM, WY
Sec. 001 LOTS 20; 012 LOTS 13; Sweetwater County
Rawlins FO
Formerly Lease No. 2
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHML

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

CSU (1) Surface occupancy or use may be restricted or prohibited within the setting contributing to the National Register of Historic Places eligibility unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting historic and visual values of the Cherokee Trail.

**Wy-184Q-074** 2445.940 Acres
T.0240N, R.0940W, 06th PM, WY
Sec. 004 S2S; 006 004 W2S; 010 ALL; Sweetwater County
Rawlins FO
Formerly Lease No. 3
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHML
WY_SW_TLS_GHML
WY_SW_TLS_GHML
WY_SW_TLS_GHML
WY_SW_TLS_GHML
WY_SW_TLS_GHML

TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

**Wy-184Q-075** 1240.100 Acres
T.0120N, R.0940W, 06th PM, WY
Sec. 004 S2S; 006 004 W2S; 010 ALL; Sweetwater County
Rawlins FO
Formerly Lease No. 4
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHML
WY_SW_TLS_GHML
WY_SW_TLS_GHML
WY_SW_TLS_GHML
WY_SW_TLS_GHML
WY_SW_TLS_GHML

TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

**Wy-184Q-076** 2445.940 Acres
T.0240N, R.0940W, 06th PM, WY
Sec. 004 S2S; 006 004 W2S; 010 ALL; Sweetwater County
Rawlins FO
Formerly Lease No. 5
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHML
WY_SW_TLS_GHML
WY_SW_TLS_GHML
WY_SW_TLS_GHML
WY_SW_TLS_GHML
WY_SW_TLS_GHML

TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

**Wy-184Q-077** 2445.940 Acres
T.0240N, R.0940W, 06th PM, WY
Sec. 004 S2S; 006 004 W2S; 010 ALL; Sweetwater County
Rawlins FO
Formerly Lease No. 6
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHML
WY_SW_TLS_GHML
WY_SW_TLS_GHML
WY_SW_TLS_GHML
WY_SW_TLS_GHML
WY_SW_TLS_GHML

TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.
database; (3) protecting the habitats of identified amphibian/reptile species. CSU (1) Surface occupancy or use may be restricted or prohibited within the setting contributing to the National Register of Historic Places eligibility unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting historic and visual values of the Cherokee Trail. 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 Rawlins Field Office GIS database; (3) protecting historic and visual values of the Cherokee Trail. 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 Rawlins Field Office GIS database; (3) protecting historic and visual values of the Cherokee Trail.

WY-184Q-076  1876.680 Acres
T.0130N, R.0940W, 06th PM, WY Sec. 007 LOTS 4;    007 E2SW,SE; 014 N2; 015 N2; 018 LOTS 1-4; 018 E2W2,E2; 019 NWNE; 023 SW,NESE,S2SE; Sweetwater County Rawlins FO Formerly Lease No.  

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

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

TLS (1) Apr 15 to Sep 15; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting nesting Burrowing owls.

CSU (1) Surface occupancy or use 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 Rawlins Field Office GIS database; (3) protecting raptor nesting habitat. 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 Rawlins Field Office GIS database; (3) protecting raptor nesting habitat. 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 Rawlins Field Office GIS database; (3) protecting raptor nesting habitat. 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 Rawlins Field Office GIS database; (3) protecting raptor nesting habitat.

Register of Historic Places eligibility unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting historic and visual values of the Cherokee Trail.

WY-184Q-078  2080.000 Acres
T.0130N, R.0940W, 06th PM, WY Sec. 010 W2,SE; 011 ALL; 012 W2,SE; 013 N2,SW; Sweetwater County Rawlins FO Formerly Lease No.  

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

WY_SW_TLS_GHML
NSO (1) as mapped on the Rawlins Field Office GIS database; (2) protecting historic values within 1/4 mile of contributing segments of the Cherokee Trail.

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

TLS (1) Apr 15 to Sep 15; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting nesting Burrowing owls.

TLS (1) Apr 10 to Jul 10 (2) as mapped on the Rawlins Field Office GIS database; (3) protecting nesting Mountain plover.

CSU (1) Surface occupancy or use may be restricted or prohibited within the setting contributing to the National Register of Historic Places eligibility unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting historic and visual values of the Cherokee Trail. 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 Rawlins Field Office GIS database; (3) protecting historic and visual values of the Cherokee Trail.
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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_SW_TLS_PHMAM
WY_SW_TLS_PHMAMWCA
WY_SW_CSU_PHMA

TLS (1) Apr 10 to Jul 10 (2) as mapped on the Rawlins Field Office GIS database; (3) protecting nesting Mountain plover.

WY-184Q-084 745.910 Acres
T.0120N, R.0950W, 06th PM, WY
Sec. 009 NW,SE;
015 NW,SE;
022 LOTS 5-8;

Sweetwater County
Rawlins FO
Formerly Lease No.

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

Fee 1 to Jul 31; (2) as mapped on the Rawlins 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 Rawlins Field Office GIS database; (3) protecting big game crucial winter range.

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

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 Rawlins Field Office GIS database; (3) protecting historic and visual values of the Cherokee Trail.

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 Rawlins Field Office GIS database; (3) protecting historic and visual values of the Cherokee Trail.

CSU (1) Surface occupancy or use may be restricted or prohibited within the setting contributing to the National Register of Historic Places eligibility unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting recreational opportunity class setting within the Adobe Town Dispersed Recreation Use Area.

WY-184Q-086 121.010 Acres
T.0120N, R.0950W, 06th PM, WY
Sec. 006 LOTS 4;
007 LOTS 4;
009 SWSW;
Sweetwater County
Rawlins FO
Formerly Lease No.

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

CSU (1) Surface occupancy or use 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 Rawlins Field Office GIS database; (3) protecting historic and visual values of the Cherokee Trail.

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 Rawlins Field Office GIS database; (3) protecting historic and visual values of the Cherokee Trail.

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 Rawlins Field Office GIS database; (3) protecting historic and visual values of the Cherokee Trail.

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 Rawlins Field Office GIS database; (3) protecting historic and visual values of the Cherokee Trail.

CSU (1) Surface occupancy or use may be restricted or prohibited within the setting contributing to the National Register of Historic Places eligibility unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting recreational opportunity class setting within the Adobe Town Dispersed Recreation Use Area.

WY-184Q-087 1919.140 Acres
T.0120N, R.0960W, 06th PM, WY
Sec. 003 LOTS 1-4;
003 S2N2,S2;
009 ALL;
010 ALL;
Sweetwater County
Rawlins FO
Formerly Lease No.

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

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 Rawlins Field Office GIS database; (3) protecting historic and visual values of the Cherokee Trail.

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 Rawlins Field Office GIS database; (3) protecting historic and visual values of the Cherokee Trail.

CSU (1) Surface occupancy or use may be restricted or prohibited within the setting contributing to the National Register of Historic Places eligibility unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting recreational opportunity class setting within the Adobe Town Dispersed Recreation Use Area.
mapped on the Rawlins Field Office GIS database; (3) protecting recreational opportunity class setting within the Adobe Town Dispersed Recreation Use Area.

**WY-184Q-088** 1443.590 Acres  
T.0130N, R.0960W, 06th PM, WY  
Sec. 004 LOTS 1-4;  
004 S2N2,S2;  
005 LOTS 1-4;  
005 S2N2,S2;  
006 LOTS 1;  
006 SENE,E2SE;  
Sweetwater County  
Rawlins FO  
Formerly Lease No.  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.  
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 Rawlins Field Office GIS database; (3) protecting recreational opportunity class setting within the Adobe Town Dispersed Recreation Use Area.

**WY-184Q-090** 718.960 Acres  
T.0130N, R.0960W, 06th PM, WY  
Sec. 018 LOTS 4;  
018 E2E2;  
019 LOTS 1-4;  
019 SENE,SWNE,SENW,E2SW,SE;  
Sweetwater County  
Rawlins FO  
Formerly Lease No.  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.  
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 Rawlins Field Office GIS database; (3) protecting recreational opportunity class setting within the Adobe Town Dispersed Recreation Use Area.

**WY-184Q-089** 800.000 Acres  
T.0130N, R.0960W, 06th PM, WY  
Sec. 007 E2E2;  
008 ALL;  
Sweetwater County  
Rawlins FO  
Formerly Lease No.  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.  
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 Rawlins Field Office GIS database; (3) protecting recreational opportunity class setting within the Adobe Town Dispersed Recreation Use Area.

**WY-184Q-091** 1878.600 Acres  
T.0130N, R.0960W, 06th PM, WY  
Sec. 020 N2,N2SW,SWSW,SE;  
029 ALL;  
030 LOTS 1-4;  
030 E2,E2W2;  
Sweetwater County  
Rawlins FO  
Formerly Lease No.  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
NSO (1) as mapped on the Rawlins Field Office GIS database; (2) protecting historic values within 1/4 mile of contributing segments of the Cherokee Trail.  
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting big game crucial winter range.  
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting nesting Raptors.
CSU (1) Surface occupancy or use may be restricted or prohibited within the setting contributing to the National Register of Historic Places eligibility unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting historic and visual values of the Cherokee Trail.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting historic and visual values of the Cherokee Trail.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.
database; (3) protecting the habitats of identified amphibian/reptile species.

WS-184Q-097 618.900 Acres
T.0180N, R.0960W, 06th PM, WY
Sec. 022 NENE, S2N2, S2;
022 NWNE, N2NW (EXCL 21.10 AC IN RR ROW UNDER ACT OF 022 03/3/1875); Sweetwater County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSE_GHMAL
WY_SW_TLS_GHMAL
TLS (1) Apr 10 to Jul 10 (2) as mapped on the Rawlins Field Office GIS database; (3) protecting nesting Mountain plover.
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 Rawlins Field Office GIS database; (3) protecting raptor nesting habitat.
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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

WS-184Q-098 2530.980 Acres
T.0190N, R.0960W, 06th PM, WY
Sec. 022 NENE, S2N2, S2;
022 NWNE, N2NW, S2N2 (EXCL 24.31 AC IN RR ROW UNDER ACT OF 022 03/3/1875); Sweetwater County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSE_GHMAL
WY_SW_TLS_GHMAL
TLS (1) Apr 10 to Jul 10 (2) as mapped on the Rawlins Field Office GIS database; (3) protecting nesting Mountain plover.
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 Rawlins Field Office GIS database; (3) protecting raptor nesting habitat.
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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

WS-184Q-099 2560.000 Acres
T.0190N, R.0960W, 06th PM, WY
Sec. 022 LOTS 3, 4;
022 S2NW, SW;
006 LOTS 1-7;
006 S2NE, S2NW, E2SW, SE;
010 N2N2, S2;
010 N2N2 (EXCL 24.31 AC IN RR ROW WY; 0294439);
012 S2;
020 ALL;
Sweetwater County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting big game crucial winter range.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting nesting Mountain plover.

WS-184Q-100 1761.600 Acres
T.0250N, R.0960W, 06th PM, WY
Sec. 001 LOTS 1-4;
001 S2N2, S2;
021 ALL;
022 W2SE;
Sweetwater County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Lease Stipulation No. 4
WY_SW_TLS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting nesting Mountain plover.
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 Rawlins Field Office GIS database; (3) protecting raptor nesting habitat.
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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

CSU (1) Surface occupancy or use may be restricted or prohibited within 1/4 mile of the visual horizon, whichever is closer, of historic properties where the setting contributes to National Register of Historic Places (NRHP) eligibility unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting historic and visual values of the Lincoln Highway/UPRR Grade historic property.
CSU (1) Surface occupancy or use may be restricted or prohibited within the setting contributing to the National Register of Historic Places eligibility unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting historic and visual values of the Lincoln Highway/UPRR Grade historic property.
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 Rawlins Field Office GIS database; (3) protecting raptor nesting habitat.

WY-184Q-101 1880.000 Acres
T.0250N, R.0960W, 06th PM, WY
Sec. 011  ALL;
014  ALL;
023  N2, NESW, S2SW, SE;
Sweetwater County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Stipulations:
WY_SW_TLS_PHMA
WY_SW_TLS_PHMAL
WY_SW_NSO_PHMAL
Lease Stipulation No. 1
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Stipulations:
WY_SW_CSU_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_TLS_PHMAL
Lease Stipulation No. 2
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Stipulations:
WY_SW_CUS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_TLS_PHMAL
Lease Stipulation No. 3
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3

Lease Stipulation No. 2
Lease Stipulation No. 3
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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

WY-184Q-105 167,960 Acres
T.0120N, R.0970W, 06th PM, WY
Sec. 012  N2NW;
021  LOTS 3, 4;
Sweetwater County
Rawlins FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Stipulations:
WY_SW_CUS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_TLS_PHMAL
Lease Stipulation No. 1
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Stipulations:
WY_SW_CUS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_TLS_PHMAL
Lease Stipulation No. 2
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Stipulations:
WY_SW_CUS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_TLS_PHMAL
Lease Stipulation No. 3
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3

DOI-BLM-WY-0000-2018-0004-EA 5-25
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Stipulations:
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 Rawlins Field Office GIS database; (3) protecting raptor nesting habitat.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting recreational opportunity class setting within the Adobe Town Dispersed Recreation Use Area.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.
operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting recreational opportunity class setting within the Adobe Town Dispersed Recreation Use Area.

### WY-184Q-110 1120.000 Acres
T.0130N, R.0970W, 06th PM, WY Sec. 034 ALL; 035 N2,SW; Sweetwater County Rawlins FO Formerly Lease No. Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting big game crucial winter range.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rawlins 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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.
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 Rawlins Field Office GIS database; (3) protecting raptor nesting habitat.
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 Rawlins Field Office GIS database; (3) protecting nesting Mountain plover.
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 Rawlins Field Office GIS database; (3) protecting raptor nesting habitat.
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 Rawlins Field Office GIS database; (3) protecting recreational opportunity class setting within the Adobe Town Dispersed Recreation Use Area.

### WY-184Q-112 1891.840 Acres
T.0140N, R.0970W, 06th PM, WY Sec. 018 SESW; 019 LOTS 1-4; 019 E2,E2W2; 030 LOTS 1-4; 030 E2,E2W2; 031 LOTS 1-4; 031 NE,E2NW,NE5W,NESE,S2SE; Sweetwater County Rawlins FO Rock Springs FO Formerly Lease No. Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting nesting Mountain plover.
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 Rawlins Field Office GIS database; (3) protecting raptor nesting habitat.
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 Rawlins Field Office GIS database; (3) protecting raptor nesting Mountain plover.
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 Rawlins Field Office GIS database; (3) protecting raptor nesting Mountain plover.
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 Rawlins Field Office GIS database; (3) protecting raptor nesting Mountain plover.
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 Rawlins Field Office GIS database; (3) protecting raptor nesting Mountain plover.
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 Rawlins Field Office GIS database; (3) protecting raptor nesting Mountain plover.
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 Rawlins Field Office GIS database; (3) protecting raptor nesting Mountain plover.
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 Rawlins Field Office GIS database; (3) protecting raptor nesting Mountain plover.
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 Rawlins Field Office GIS database; (3) protecting raptor nesting Mountain plover.
arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting raptor nesting habitat.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting recreational opportunity class setting within the Adobe Town Dispersed Recreation Use Area.

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 Rock Springs Field Office GIS database; (3) protecting Class I and/or Class II Visual Resource Management Areas.

DEFER ALL (2560.00 acres) Pending completion of the Rawlins RMP Amendment (VRM).

WY-184Q-114 614.670 Acres
T.0180N, R.0970W, 06th PM, WY Sec. 028 SENE,N2NW,S2; 028 N2NE,SWNE,S2NW(EXCL Sec. 028 SENE,N2NW,S2; 028 UNDER ACT OF 3/3/1875); WY_SW_TLS_GHMAL

Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMALCA
WY_SW_CSU_PHMA
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting big game crucial winter range.

TLS (1) Apr 10 to Jul 10 (2) as mapped on the Rawlins Field Office GIS database; (3) protecting nesting Mountain plover.

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 Rawlins Field Office GIS database; (3) protecting nesting Burrowing owls.

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 Rawlins Field Office GIS database; (3) protecting nesting Mountain plover.

CSU (1) Surface occupancy or use may be restricted or prohibited within the setting contributing to the National Register of Historic Places eligibility unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting historic and visual values of the Rawlins to Ft. Washakie Trail.

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 Rawlins Field Office GIS database; (3) protecting recreational opportunity class setting within the Adobe Town Dispersed Recreation Use Area.

WY-184Q-116 1787.370 Acres
T.0140N, R.0980W, 06th PM, WY Sec. 008 S2N2,S2; 009 ALL; 017 N2; 018 LOTS 1,2; 018 NE,E2NW; WY-184Q-117 1765.390 Acres
T.0140N, R.0980W, 06th PM, WY Sec. 008 S2N2,S2; 009 ALL; 017 N2; 018 LOTS 1,2; 018 NE,E2NW; WY_SW_TLS_PHMAL

Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHMAL
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting nesting Raptors.

TLS (1) Apr 15 to Sep 15; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting nesting Burrowing owls.

Burrowing owls
arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

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 Rawlins Field Office GIS database; (3) protecting raptor nesting habitat.

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 Rawlins 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 Rawlins Field Office GIS database; (3) protecting nesting Mountain plover.

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 Rawlins Field Office GIS database; (3) protecting nesting Burrowing owls.
operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting raptor nesting habitat.

Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.

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 Rawlins Field Office GIS database; (3) protecting cultural and scenic values of the Cherokee Trail - Southern Route.

Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rawlins and Rock Springs Field Office’s GIS databases; (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 Rawlins Field Office GIS database; (3) protecting raptor nesting habitat.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

CSU (1) Surface occupancy or use may be restricted or prohibited in the

Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHMA
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
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 Rawlins Field Office GIS database; (3) protecting recreational opportunity class setting within the Adobe Town Dispersed Recreation Use Area.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

CSU (1) Surface occupancy or use may be restricted or prohibited in the

Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHMA
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
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 Rawlins Field Office GIS database; (3) protecting recreational opportunity class setting within the Adobe Town Dispersed Recreation Use Area.

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 Rawlins Field Office GIS database; (3) protecting the habitats of identified amphibian/reptile species.

CSU (1) Surface occupancy or use may be restricted or prohibited in the

DOI-BLM-WY-0000-2018-0004-EA  5-30
Lease Stipulation No. 2
Lease Stipulation No. 3
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.
CSU (1) Surface occupancy or use within 1/4 mile or visual horizon of the trail, whichever is closer, 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 Rock Springs Field Office GIS database; (3) protecting cultural and scenic values of the Overland Trail.

WY-184Q-130 1078.600 Acres
T.0210N, R.1000W, 06th PM, WY
Sec. 030 LOTS 5-8; 030 SWNE, E2W2, W2SE; 034 ALL; 037 LOTS 5-8; 038 E2, E2W2;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Lease Stipulation No. 4
Lease Stipulation No. 5
WY-184Q-131 126.680 Acres
T.0210N, R.1000W, 06th PM, WY
Sec. 021 LOTS 3,4; 022 LOTS 7,8; 024 NE, SW;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Lease Stipulation No. 4
WY-184Q-132 2433.320 Acres
T.0140N, R.1000W, 06th PM, WY
Sec. 004 LOTS 1-4; 005 S2N2, SE; 006 LOTS 1-3,8-11; 007 LOTS 5-8; 008 E2, E2W2;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Lease Stipulation No. 4
WY-184Q-133 2406.320 Acres
T.0140N, R.1000W, 06th PM, WY
Sec. 008 ALL; 014 NE, SW; 017 ALL; 018 LOTS 5-8; 019 E2, E2W2;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Lease Stipulation No. 4
WY-184Q-134 1080.000 Acres
T.0140N, R.1000W, 06th PM, WY
Sec. 021 ALL; 024 NWNW;
028 NE,SENW,NESW;
033 NW;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMAL
WY_SW_TLS_GHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.

WY-184Q-135  2534.360 Acres T.0160N, R.1000W, 06th PM, WY
Sec. 028 ALL;
030 LOTS 1-4;
030 E2,E2W2;
032 ALL;
034 ALL;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMAL
WY_SW_TLS_GHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting raptor nesting habitat.
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 Rock Springs Field Office GIS database; (3) protecting cultural and scenic values of the Point of Rocks/South Pass Trail.

WY-184Q-136  2460.140 Acres T.0210N, R.1000W, 06th PM, WY
Sec. 002 LOTS 5,6;
002 S2NE,SE;
004 LOTS 5-8;
004 S2N2,S2;
006 LOTS 8-14;
006 S2NE,SENW,E2SW,SE;
008 ALL;
012 NWNE,NW;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
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 Rock Springs Field Office GIS database; (3) protecting raptor nesting habitat.
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 Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
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 Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.

*DEFER IN PART (1916.160 acres). The following portions of Parcel 137 are located within the boundaries of active coal lease areas. Due to unresolved conflicts between coal mining and oil and gas development, these portions of the parcel will be deferred.

WY-184Q-137  2076.160 Acres T.0210N, R.1000W, 06th PM, WY
Sec. 014 SW;
018 LOTS 5-8;
018 E2,E2W2;
022 ALL;
026 ALL;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
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 Rock Springs Field Office GIS database; (3) protecting raptor nesting habitat.
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 Rock Springs Field Office GIS database; (3) protecting raptor nesting habitat.
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 Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.

*DEFER IN PART (649.88 acres). The following portions of Parcel 136 are located within the boundaries of active coal lease areas. Due to unresolved conflicts between coal mining and oil and gas development, these portions of the parcel will be deferred.

T.0210N, R.0100W, 06th PM, WY
Sec. 006 LOTS 8-14;
006 S2NE,SENW,E2SW,SE;
026 NW,SE;
DOI-BLM-WY-0000-2018-0004-EA  5-32
<table>
<thead>
<tr>
<th>Parcel ID</th>
<th>Description</th>
<th>Area</th>
<th>Location</th>
<th>Stipulations</th>
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<tbody>
<tr>
<td>WY-184Q-140</td>
<td>2212.380 Acres</td>
<td>2212.380 Acres</td>
<td>T.0200N, R.1000W, 06th PM, WY</td>
<td>CSU (1) Surface occupancy or use will be restricted or prohibited unless the</td>
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<td>Sec. 034 ALL;</td>
<td>operator and surface managing agency arrive at an acceptable plan for</td>
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<td>Sweetwater County</td>
<td>mitigation of anticipated impacts; (2) as mapped on the Rock Springs Field</td>
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<td>Rock Springs FO</td>
<td>Office GIS database; (3) protecting Class II Visual Resource Management Areas.</td>
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<td>Lease Stipulation No. 1</td>
<td>***DEFER ALL (1813.360 acres). Parcel will be deferred pending the completion of the RSMO RMP revision, which is recommending management changes to the area.</td>
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<td>Lease Stipulation No. 2</td>
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<td>WY-184Q-141 1813.360 Acres</td>
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<td>T.0120N, R.1010W, 06th PM, WY</td>
<td>NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.</td>
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<td>Sec. 006 LOTS 8-11;</td>
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<td>006 E2,E2W2;</td>
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<td>Lease Stipulation No. 1</td>
<td>***DEFER ALL (1813.360 acres). Parcel will be deferred pending the completion of the RSMO RMP revision, which is recommending management changes to the area.</td>
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<td>NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.</td>
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<td>Lease Stipulation No. 1</td>
<td>***DEFER ALL (1813.360 acres). Parcel will be deferred pending the completion of the RSMO RMP revision, which is recommending management changes to the area.</td>
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<td>WY-184Q-141 1813.360 Acres</td>
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<td>T.0120N, R.1010W, 06th PM, WY</td>
<td>NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.</td>
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<td>Sec. 006 LOTS 8-11;</td>
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<td>006 E2,E2W2;</td>
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<td>Lease Stipulation No. 1</td>
<td>***DEFER ALL (1813.360 acres). Parcel will be deferred pending the completion of the RSMO RMP revision, which is recommending management changes to the area.</td>
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<td>WY-184Q-142 805.780 Acres</td>
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<td>T.0120N, R.1010W, 06th PM, WY</td>
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<td>Sec. 019 LOTS 5-12;</td>
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<td>***DEFER ALL (2402.960 acres). Parcel will be deferred pending the completion of the RSMO RMP revision, which is recommending management changes to the area.</td>
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<td>Lease Notice No. 1</td>
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<td>Lease Notice No. 2</td>
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<td>Lease Notice No. 3</td>
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<td>Lease Stipulation No. 1</td>
<td>***DEFER ALL (2402.960 acres). Parcel will be deferred pending the completion of the RSMO RMP revision, which is recommending management changes to the area.</td>
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<td>Lease Stipulation No. 2</td>
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<td>Lease Stipulation No. 3</td>
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<td>WY-184Q-144 2500.950 Acres</td>
<td>T.0130N, R.1010W, 06th PM, WY</td>
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Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHEMA
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting raptor nesting habitat.
WY-184Q-147 2560.000 Acres
T.0130N, R.1010W, 06th PM, WY
Sec. 013 W2SW;
014 ALL;
015 ALL;
016 N2,E2SE;
017 LOTS 1-3;
017 N2,SW;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHEMA
NSO (1) as mapped on the Rock Springs Field Office GIS database; (3) protecting cultural and scenic values of the Cherokee Trail - Southern Route.
WY-184Q-146 2298.980 Acres
T.0130N, R.1010W, 06th PM, WY
Sec. 013 W2SW;
014 ALL;
015 ALL;
016 N2,E2SE;
017 LOTS 1-3;
017 N2,SW;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHEMA
NSO (1) as mapped on the Rock Springs Field Office GIS database; (3) protecting cultural and scenic values of the Cherokee Trail - Southern Route.
WY-184Q-145 2560.000 Acres
T.0130N, R.1010W, 06th PM, WY
Sec. 009 ALL;
010 ALL;
011 ALL;
012 ALL;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHEMA
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting raptor nesting habitat.
WY-184Q-148 1700.080 Acres
T.0130N, R.1010W, 06th PM, WY
Sec. 022 LOTS 1;
022 N2,N2SW,SESE;
023 N2NE,SWNE,NWSE;
027 LOTS 1;
WY-184Q-149  2540.760 Acres
T.0140N, R.1010W, 06th PM, WY
Sec. 001  LOTS 1-3;
          SWNE,NW,N2SW,SWSW,NWSE;
          029  N2;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHAMAWCA
WY_SW_CSU_PHAM
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting biologic values of the Cherokee Trail - Southern Route.

*DEFER ALL (1700.080 acres). Parcel 148 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

WY-184Q-150  2239.150 Acres
T.0140N, R.1010W, 06th PM, WY
Sec. 005  LOTS 5-8;
          005  NESW,S2NE,SE,S2SW;
          007  LOTS 6-8;
          007  E2,SENW,E2SW;
          008  ALL;
          009  ALL;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHAMAWCA
WY_SW_CSU_PHAM
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting biologic values of the Cherokee Trail - Southern Route.

WY-184Q-151  2560.000 Acres
T.0140N, R.1010W, 06th PM, WY
Sec. 010  ALL;
          011  ALL;
          012  ALL;
          013  ALL;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHAMAWCA
WY_SW_CSU_PHAM
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting biologic values of the Cherokee Trail - Southern Route.

WY-184Q-152  1920.000 Acres
T.0140N, R.1010W, 06th PM, WY
Sec. 014  ALL;
          015  ALL;
          017  ALL;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHAMAWCA
WY_SW_CSU_PHAM
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting biologic values of the Cherokee Trail - Southern Route.

WY-184Q-153  2518.860 Acres
T.0140N, R.1010W, 06th PM, WY
Sec. 018  LOTS 5-8;
          018  E2,E2W2;
          019  LOTS 5-7;
          019  E2,E2W2;
          020  ALL;
          021  ALL;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHAMAWCA
WY_SW_CSU_PHAM
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.

WY-184Q-156 1910.880 Acres
T.0140N, R.1010W, 06th PM, WY
Sec. 030 LOTS 5-8;
030 E2,E2W2;
031 LOTS 5-8;
031 E2,E2W2;
032 ALL;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.

*DEFER ALL (1910.880 acres). Parcel 156 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

WY-184Q-157 1920.000 Acres
T.0140N, R.1010W, 06th PM, WY
Sec. 033 ALL;
034 ALL;
035 ALL;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.

WY-184Q-158 2498.790 Acres
T.0150N, R.1010W, 06th PM, WY
Sec. 002 LOTS 5-8;
002 S2NE,S2;
004 LOTS 5-8;
004 S2NE,S2;
006 LOTS 8-14;
006 S2NE,SE,NW,SE;
008 ALL;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-163 2210.040 Acres
T.0160N, R.1010W, 06th PM, WY
Sec. 004 LOTS 9-12;
  004 S2;
  006 LOTS 13-18;
  006 E2SW,SE;
  008 ALL;
  018 LOTS 5-8;
  018 E2,E2W2;

Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-164 1890.080 Acres
T.0160N, R.1010W, 06th PM, WY
Sec. 020 ALL;
  030 LOTS 5-8;
  030 E2,E2W2;
  032 ALL;

Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-165 1600.000 Acres
T.0150N, R.1010W, 06th PM, WY
Sec. 024 S2;
  026 ALL;
  034 ALL;

Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

*DEFER IN PART (298.800 acres). The following portions of Parcel 166 are located within the boundaries of active coal lease areas. Due to unresolved conflicts between coal mining and oil
and gas development, these portions of the parcel will be deferred.
T.0170N, R.0101W, 06th PM, WY
Sec. 002 LOTS 3,4;
002 SWNW
010 NW, N2SW

WY-184Q-167 2549.570 Acres
T.0170N, R.1010W, 06th PM, WY
Sec. 004 LOTS 1-4;
004 S2N2,S2;
006 LOTS 1-7;
006 S2NE,SENW,E2SW,SE;
008 ALL;
018 LOTS 1-4;
018 E2,E2W2;
Sweetwater County
Rock Springs FO
Formerly Lease No.

Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHML
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.

WY-184Q-169 2560.000 Acres
T.0170N, R.1010W, 06th PM, WY
Sec. 022 ALL;
024 ALL;
026 ALL;
034 ALL;
Sweetwater County
Rock Springs FO
Formerly Lease No.

Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHML
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.

*DEFER IN PART (479.680 acres). The following portions of Parcel 167 are located within the boundaries of active coal lease areas. Due to unresolved conflicts between coal mining and oil and gas development, these portions of the parcel will be deferred.
T.0170N, R.0101W, 06th PM, WY
Sec. 004 Lots 1,2;
004 SE, S2NE, SENW, E2SW, SWSW

WY-184Q-168 2558.400 Acres
T.0170N, R.1010W, 06th PM, WY
Sec. 020 ALL;
028 ALL;
030 LOTS 1-4;
030 E2,E2W2;
032 ALL;
Sweetwater County
Rock Springs FO
Formerly Lease No.

Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHML
WSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.

WY-184Q-170 2560.000 Acres
T.0180N, R.1010W, 06th PM, WY
Sec. 002 LOTS 1-4;
002 S2N2,S2;
010 ALL;
012 ALL;
014 ALL;
Sweetwater County
Rock Springs FO
Formerly Lease No.

Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHML
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.

*DEFER IN PART (1280.000 acres). The following portions of Parcel 170 are located within the boundaries of active coal lease areas. Due to unresolved conflicts between coal mining and oil and gas development, these portions of the parcel will be deferred.
T.0180N, R.0101W, 06th PM, WY
Sec. 012 ALL;
014 ALL

WY-184Q-171 2341.330 Acres
T.0180N, R.1010W, 06th PM, WY
Sec. 004 LOTS 1-4;
004 S2N2,S2;
006 LOTS 1-7;
006 S2NE,SENW,E2SW,SE;
008 ALL;
018 LOTS 2-4;
018 N2NE,SEN,SE2SW,NESE,S2SE;
Sweetwater County
Rock Springs FO
Formerly Lease No.

Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHML
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.

*DEFER IN PART (1280.000 acres). The following portions of Parcel 170 are located within the boundaries of active coal lease areas. Due to unresolved conflicts between coal mining and oil and gas development, these portions of the parcel will be deferred.
T.0180N, R.0101W, 06th PM, WY
Sec. 012 ALL;
014 ALL

WY-184Q-172 2551.600 Acres
T.0180N, R.1010W, 06th PM, WY
Sec. 020 ALL;
028 ALL;
030 LOTS 1-4;
030 E2,E2W2;
032 ALL;
Sweetwater County
Rock Springs FO
Formerly Lease No.

Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHML
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.

WY-184Q-173 2341.330 Acres
T.0180N, R.1010W, 06th PM, WY
Sec. 004 LOTS 1-4;
004 S2N2,S2;
006 LOTS 1-7;
006 S2NE,SENW,E2SW,SE;
008 ALL;
018 LOTS 2-4;
018 N2NE,SEN,SE2SW,NESE,S2SE;
Sweetwater County
Rock Springs FO
Formerly Lease No.

Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHML
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.

WY-184Q-174 2551.600 Acres
T.0180N, R.1010W, 06th PM, WY
Sec. 020 ALL;
028 ALL;
030 LOTS 1-4;
030 E2,E2W2;
032 ALL;
Sweetwater County
Rock Springs FO
Formerly Lease No.

Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHML
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.

WY-184Q-175 2341.330 Acres
T.0180N, R.1010W, 06th PM, WY
Sec. 004 LOTS 1-4;
004 S2N2,S2;
006 LOTS 1-7;
006 S2NE,SENW,E2SW,SE;
008 ALL;
018 LOTS 2-4;
018 N2NE,SEN,SE2SW,NESE,S2SE;
Sweetwater County
Rock Springs FO
Formerly Lease No.

Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHML
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Jan 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting raptor nesting habitat.
CSU (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
CSU (1) Surface occupancy or use within 1/4 mile or visual horizon of the trail, whichever is closer, 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 Rock Springs Field Office GIS database; (3) protecting cultural and scenic values of the Overland Trail.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptor.

WY-184Q-173  2560.000 Acres
T.0180N, R.1010W, 06th PM, WY
Sec. 022  ALL;
  024  ALL;
  026  ALL;
  034  ALL;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptor.

*DEFER IN PART (1840.000 acres). The following portions of Parcel 173 are located within the boundaries of active coal lease areas. Due to unresolved conflicts between coal mining and oil and gas development, these portions of the parcel will be deferred.
T.0180N, R.1010W, 06th PM, WY
Sec. 024  ALL;
  026  ALL;
  034  E2, SW, E2NW

Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
CSU (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
CSU (1) Surface occupancy or use within 1/4 mile or visual horizon of the trail, whichever is closer, 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 Rock Springs Field Office GIS database; (3) protecting cultural and scenic values of the Point of Rocks/South Pass Trail.

*DEFER IN PART (498.320 acres). The following portions of Parcel 177 are located within the boundaries of a mapper water source area recharge zone for the Town Of Superior. These portions will be deferred pending the RSFO RMP revision which is proposing management changes to the area.
T.0190N, R.1010W, 06th PM, WY
Sec. 004  LOTS 1-4;
  004  S;
  008  SWSW

DOI-BLM-WY-0000-2018-0004-EA   5-39
Formerly Lease No. 3
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Lease Special Notice: This parcel is located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridors. Functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1 TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.

CSU (1) Surface occupancy or use within 1/4 mile or visual horizon of the trail, whichever is closer, 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 Rock Springs Field Office GIS database; (3) protecting cultural and scenic values of the Point of Rocks/South Pass Trail.

DEFER ALL (638.880 acres). Parcel 180 is located within the boundaries of a mapper water source area recharge zone for the Town of Superior. This parcel will be deferred pending the RSFO RMP revision which is proposing management changes to the area.
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHMAL
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting raptor nesting Raptors.

*DEFER ALL (1460.300 acres). Parcel 181 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

WY-184Q-182   1920.560 Acres
T.0130N, R.1020W, 06th PM, WY
Sec. 001  LOTS 5-8;
001  S2N2,S2;
002  LOTS 5-8;
002  S2N2,S2;
003  LOTS 5-8;
003  S2N2,S2;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHAMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
CSU (1) Surface occupancy or use within 1/4 mile or visual horizon of the trail, whichever is closer, 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 Rock Springs Field Office GIS database; (3) protecting cultural and scenic values of the Cherokee Trail - Southern Route.

*DEFER ALL (2554.990 acres). Parcel 183 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

WY-184Q-184   2560.000 Acres
T.0130N, R.1020W, 06th PM, WY
Sec. 009  ALL;
010  ALL;
011  ALL;
012  ALL;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PHAMAC
WY_SW_CSU_PHMA
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
CSU (1) Surface occupancy or use within 1/4 mile or visual horizon of the trail, whichever is closer, 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 Rock Springs Field Office GIS database; (3) protecting cultural and scenic values of the Cherokee Trail - Southern Route.

*DEFER ALL (2366.720 acres). Parcel 185 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

WY-184Q-185   2366.720 Acres
T.0130N, R.1020W, 06th PM, WY
Sec. 013  LOTS 1-8;
013  NWSW,S2S2;
014  ALL;
015  ALL;
017  LOTS 1-3;
017  N2,S;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PHAMAC
WY_SW_CSU_PHMA
WY_SW-184Q-186        880.850 Acres
T.0130N, R.1020W, 06th PM, WY
Sec. 018  LOTS 5-7,11-13;
Sweetwater County

018 NE,E2W2,NWSE;  
019 LOTS S-7;  
019 W2NE,SENE,E2NW;  
Sweetwater County  
Rock Springs FO  
Formerly Lease No.  
Stipulations:  
 Lease Notice No. 1  
 Lease Notice No. 2  
 Lease Notice No. 3  
 Lease Stipulation No. 1  
 Lease Stipulation No. 2  
 Lease Stipulation No. 3  
 WY_SW_NSO_PHMAL  
 WY_SW_TLS_PHMAL  
 WY_SW_TLS_PHMAWCA  
 WY_SW_CSU_PHMA  
 CSU  (1) Surface occupancy or use within 1/4 mile or visual horizon of the trail, whichever is closer, 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 Rock Springs Field Office GIS database; (3) protecting cultural and scenic values of the Cherokee Trail - Southern Route.  
*DEFER ALL (880.850 acres). Parcel 186 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

T.0140N, R.1020W, 06th PM, WY

WY-184Q-187 2074.470 Acres  
T.0140N, R.1020W, 06th PM, WY  
Sec. 005 LOTS 7-8;  
 005 SWNW,S2S2;  
 007 LOTS 5-8;  
 007 E2,E2W2;  
 008 ALL;  
 009 ALL;  
Sweetwater County  
Rock Springs FO  
Formerly Lease No.  
Stipulations:  
 Lease Notice No. 1  
 Lease Notice No. 2  
 Lease Notice No. 3  
 Lease Stipulation No. 1  
 Lease Stipulation No. 2  
 Lease Stipulation No. 3  
 WY_SW_NSO_PHMAL  
 WY_SW_TLS_PHMAL  
 WY_SW_TLS_PHMAWCA  
 WY_SW_CSU_PHMA  
 TLS  (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.  
*DEFER ALL (2181.220 acres). Parcel 188 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

T.0140N, R.1020W, 06th PM, WY  
Sec. 005 LOTS 7-8;  
 008 ALL;  
 015 ALL;  
 Sweetwater County  
Rock Springs FO  
Formerly Lease No.  
Stipulations:  
 Lease Notice No. 1  
 Lease Notice No. 2  
 Lease Notice No. 3  
 Lease Stipulation No. 1  
 Lease Stipulation No. 2  
 Lease Stipulation No. 3  
 WY_SW_NSO_PHMAL  
 WY_SW_TLS_PHMAL  
 WY_SW_TLS_PHMAWCA  
 WY_SW_CSU_PHMA  
 TLS  (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.

T.0140N, R.1020W, 06th PM, WY  
Sec. 013 ALL;  
 WY_SW_TLS_PHMAWCA  
 WY_SW_CSU_PHMA  
 NSO  (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.  
TLS  (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.  
TLS  (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.  
*DEFER ALL (2080.000 acres). Parcel 189 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

T.0140N, R.1020W, 06th PM, WY  
Sec. 019 LOTS S-8;  
 018 E2,E2W2;  
 019 ALL;  
 Sweetwater County  
Rock Springs FO  
Formerly Lease No.  
Stipulations:  
 Lease Notice No. 1  
 Lease Notice No. 2  
 Lease Notice No. 3  
 Lease Stipulation No. 1  
 Lease Stipulation No. 2  
 Lease Stipulation No. 3  
 WY_SW_NSO_PHMAL  
 WY_SW_TLS_PHMAL  
 WY_SW_TLS_PHMAWCA  
 WY_SW_CSU_PHMA  
 TLS  (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.  
*DEFER ALL (2552.560 acres). Parcel 190 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

T.0140N, R.1020W, 06th PM, WY  
Sec. 020 ALL;  
 WY_SW_TLS_PHMAWCA  
 WY_SW_CSU_PHMA  
 NSO  (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.  
TLS  (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.  
TLS  (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.  
*DEFER ALL (2552.560 acres). Parcel 191 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

T.0140N, R.1020W, 06th PM, WY  
Sec. 020 ALL;
GIS database; (3) protecting big game

raptor nesting habitat.

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

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

Formerly Lease No.
Rock Springs FO

WY-184Q-192 2560.000 Acres
T.0140N, R.1020W, 06th PM, WY
Sec. 027 ALL;
028 ALL;
029 ALL;
030 LOTS 5-8;
030 E2,E2W2;

Sweetwater County
Rock Springs FO

*DEFER ALL (2553.080 acres). Parcel
191 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

WY-184Q-193 2553.560 Acres
T.0140N, R.1020W, 06th PM, WY
Sec. 027 ALL;
028 ALL;
029 ALL;
030 LOTS 5-8;
030 E2,E2W2;

Sweetwater County
Rock Springs FO

Formerly Lease No.

WY-184Q-194 1274.360 Acres
T.0140N, R.1020W, 06th PM, WY
Sec. 027 ALL;
028 ALL;
029 ALL;
030 LOTS 5-8;
030 E2,E2W2;

Sweetwater County
Rock Springs FO

*DEFER ALL (1274.360 acres). Parcel
194 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

WY-184Q-195 1920.000 Acres
T.0140N, R.1020W, 06th PM, WY
Sec. 033 ALL;
034 ALL;
035 ALL;

Sweetwater County
Rock Springs FO

Formerly Lease No.

WY-184Q-196 2081.360 Acres
T.0150N, R.1020W, 06th PM, WY
Sec. 033 LOTS 1-4;
034 S2N2,52;
035 ALL;
036 S2W;

Sweetwater County
Rock Springs FO

*DEFER ALL (1920.000 acres). Parcel
195 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

WY-184Q-197 2081.360 Acres
T.0150N, R.1020W, 06th PM, WY
Sec. 033 LOTS 1-4;
034 S2N2,52;
035 ALL;
036 S2W;

Sweetwater County
Rock Springs FO

*DEFER ALL (1920.000 acres). Parcel
195 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

GIS database; (3) protecting big game

raptor nesting habitat.

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

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

Formerly Lease No.

WY-184Q-193 2553.560 Acres
T.0140N, R.1020W, 06th PM, WY
Sec. 027 ALL;
028 ALL;
029 ALL;
030 LOTS 5-8;
030 E2,E2W2;

Sweetwater County
Rock Springs FO

*DEFER ALL (2553.560 acres). Parcel
193 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

WY-184Q-194 1274.360 Acres
T.0140N, R.1020W, 06th PM, WY
Sec. 027 ALL;
028 ALL;
029 ALL;
030 LOTS 5-8;
030 E2,E2W2;

Sweetwater County
Rock Springs FO

*DEFER ALL (2553.560 acres). Parcel
194 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

WY-184Q-195 1920.000 Acres
T.0140N, R.1020W, 06th PM, WY
Sec. 033 ALL;
034 ALL;
035 ALL;

Sweetwater County
Rock Springs FO

*DEFER ALL (1920.000 acres). Parcel
195 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

WY-184Q-196 2081.360 Acres
T.0150N, R.1020W, 06th PM, WY
Sec. 033 LOTS 1-4;
034 S2N2,52;
035 ALL;
036 S2W;

Sweetwater County
Rock Springs FO

*DEFER ALL (1920.000 acres). Parcel
195 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.
GIS database; (3) protecting big game crucial winter range.
TLS  (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.

Formerly Lease No. Rock Springs FO Sweetwater County
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHAMAWCA
WY_SW_CSR_PHMA
NSO  (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS  (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.

WY-184Q-197  2418.140 Acres T.0150N, R.1020W, 06th PM, WY
Sec. 004
004  S2N2,S2; 005  LOTS 3,4; 005  SWNE,S2NW,S2; 006  LOTS 1-7; 006  S2NE,S2NW,E2SW,SE; 007  LOTS 1-4; 007  E2,W2;
Sweetwater County
Rock Springs FO
Formerly Lease No. Rock Springs FO Sweetwater County
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHAMAWCA
WY_SW_CSR_PHMA
NSO  (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS  (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.

WY-184Q-199  2560.000 Acres T.0150N, R.1020W, 06th PM, WY
Sec. 014
014  ALL;
020  ALL;
021  ALL;
028  ALL;
Sweetwater County
Rock Springs FO
Formerly Lease No. Rock Springs FO Sweetwater County
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHAMAWCA
WY_SW_CSR_PHMA
NSO  (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS  (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.

WY-184Q-200  2547.640 Acres T.0150N, R.1020W, 06th PM, WY
Sec. 019
019  E2,E2W2; 020  ALL;
021  ALL;
028  ALL;
Sweetwater County
Rock Springs FO
Formerly Lease No. Rock Springs FO Sweetwater County
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHAMAWCA
WY_SW_CSR_PHMA
NSO  (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS  (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting raptor nesting Raptors.

*DEFER ALL (2560.000 acres). Parcel 201 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

**WY-184Q-202** 2537.340 Acres
Sec. 029  ALL;
030  LOTS 1-4;
030  E2,E2W2;
031  LOTS 1-4;
031  E2,E2W2;
032  ALL;

Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WSW_TLS_PHMA
WSW_TLS_PHMAWCA
WSW_CSU_PHMA
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.

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

*DEFER ALL (1880.000 acres). Parcel 203 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

**WY-184Q-204** 2139.580 Acres
Sec. 002  LOTS 1-4;
002  S2;
004  LOTS 1-4;
004  S2;
006  LOTS 1-6;
006  E2SW,SE;
008  ALL;

Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.

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

**WY-184Q-206** 1885.360 Acres
Sec. 018  LOTS 1-4;
018  E2,E2W2;
020  ALL;
030  LOTS 1-4;
030  E2,E2W2;

Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.

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

**WY-184Q-207** 2520.000 Acres
Sec. 022  ALL;
026  ALL;
028  ALL;
034  NE, N2NW, SENW, S2;

Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
DOI-BLM-WY-0000-2018-0004-EA  5-46

Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
NSO  (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.

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

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

Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
TLS  (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.

*DEFER ALL (903.530 acres). Parcel 208 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
NSO  (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.

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

Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
NSO  (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.

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

Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
NSO  (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.

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

Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
NSO  (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.

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

Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
NSO  (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.

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

Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
NSO  (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.

TLS  (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.
Sweetwater County
Rock Springs FO
Formerly Lease No. 022
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.

WY-184Q-217  1920.000 Acres
T.0190N, R.1020W, 06th PM, WY
Sec. 020 ALL;
028 ALL;
034 ALL;
Sweetwater County
Rock Springs FO
Formerly Lease No. 022
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.

WY-184Q-218  505.120 Acres
T.0200N, R.1020W, 06th PM, WY
Sec. 004 LOTS 1,2;
004 SE;
010 NENE,NW;
012 NENE;
020 SWSE;
Sweetwater County
Rock Springs FO
Formerly Lease No. 022
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Special Lease Notice: This parcel is located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridor functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016).
WY-184Q-220  2238.320 Acres
T.0210N, R.1020W, 06th PM, WY
Sec. 014  S2;
024  ALL;
026  ALL;
030  LOTS 1-4;
030  E2,E2W2;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
  Lease Notice No. 1
  Lease Notice No. 2
  Lease Notice No. 3
  Lease Stipulation No. 1
  Lease Stipulation No. 2
  Lease Stipulation No. 3 92.17
WY_SW_TLS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_TLS_PHMAL
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
  Lease Notice No. 1
  Lease Notice No. 2
  Lease Notice No. 3
  Lease Stipulation No. 1
  Lease Stipulation No. 2
  Lease Stipulation No. 3 92.17
WY_SW_TLS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_TLS_PHMAL
WSO  (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting values of the Natural Corrals ACEC.
TLS  (1) May 1 to Jun 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game parturition.
TLS  (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
TLS  (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.
*DEFER ALL-Pending Rock Springs RMP Revision

WY-184Q-223  2400.750 Acres
T.0120N, R.1030W, 06th PM, WY
Sec. 011  E2;
012  ALL;
013  LOTS 1-4;
013  N2,N2S2;
014  LOTS 1-5;
014  N2,N2SE;
015  LOTS 1-4;
015  N2,N2SW;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
  Lease Notice No. 1
  Lease Notice No. 2
  Lease Notice No. 3
  Lease Stipulation No. 1
  Lease Stipulation No. 2
  Lease Stipulation No. 3
  Lease Stipulation No. 4 92.17
WY_SW_TLS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_TLS_PHMAL
WSO  (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting values of the Natural Corrals ACEC.
TLS  (1) May 1 to Jun 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game parturition.
TLS  (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
CSU  (1) Surface occupancy or use will be restricted or prohibited unless the operator and surface managing agency arrive at an acceptable plan for management changes to the area.
Formerly Lease No.
Rock Springs FO
Sweetwater County
015  LOTS 1-4;
015  N2,N2SW;

DOI-BLM-WY-0000-2018-0004-EA  5-48
Stipulations:
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
Formerly Lease No.  

020  LOTS 5-9;  
020  NE;  
Sweetwater County  
Rock Springs FO  
Formerly Lease No.  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  

*DELETE IN PART (1738.79 acres). The following portions of Parcel 224 are within the Red Creek No Leasing Area. This No Leasing Area is closed to new oil and gas leasing per 1996 Green River RMP pg. 12.  
T.0120N, R.1030W, 06th PM, WY  
Sec. 016  SENE, S2N2SENE, S2SWNE, NW5SWNE, W2NWNE;  
017  LOTS 1-6;  
017  E2;  
018  LOTS 5-12;  
019  LOTS 9,12,13;  
020  LOTS 5-9;  
020  NE  

*DEFER IN PART (40 acres). Portions of Parcel 224 are located inside the Greater Little Mountain area. These portions of the parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.  
T.0120N, R.1030W, 06th PM, WY  
Sec. 016  NENE, NESWNE, E2NWNE, N2N2SENW  

017  ALL;  
018  E2,E2W2;  
019  LOTS 9-11;  
020  LOTS 5-9;  
Sweetwater County  
Rock Springs FO  
Formerly Lease No.  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
Formerly Lease No.  

T.0120N, R.1030W, 06th PM, WY  
Sec. 016  SENE, S2NE, SENW, E2SW, SE;  
017  LOTS 5-8;  
018  E2,E2W2;  
019  LOTS 5-11;  
020  LOTS 1-5;  
Sweetwater County  
Rock Springs FO  

TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.  
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.  
CSU (1) Surface occupancy or use within the Pine Mountain Special Management Area 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 Rock Springs Field Office GIS database; (3) protecting resource values within the Pine Mountain Special Management Area.  
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 Rock Springs Field Office GIS database; (3) protecting Class II Visual Resource Management Areas.  

*DELETE IN PART (451.74 acres). The following portions of Parcel 225 are within the Red Creek No Leasing Area. This No Leasing Area is closed to new oil and gas leasing per 1996 Green River RMP pg. 12.  
T.0120N, R.1030W, 06th PM, WY  
Sec. 021  LOTS 5,6;  
021  NE,N2NW,SWNW;  
022  LOTS 5;  
020  NE  

*DEFER IN PART (1076.44 acres). Portions of Parcel 225 are located inside the Greater Little Mountain area. These portions of the parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.  
T.0120N, R.1030W, 06th PM, WY  
Sec. 021  LOTS 5,6;  
021  NE,N2NW,SWNW;  
022  LOTS 5;  
020  NE  

WY-184Q-225  1528.180 Acres  
T.0120N, R.1030W, 06th PM, WY  
Sec. 021  LOTS 5,6;  
021  NE,N2NW,SWNW;  
022  LOTS 5;  
020  NE  

WY-184Q-226  2507.380 Acres  
T.0130N, R.1030W, 06th PM, WY  
Sec. 022  LOTS 3,4,6-8;  
023  LOTS 3-10;  
024  S2N2;  
Sweetwater County  
Rock Springs FO  

TLS (1) May 1 to Jun 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game parturition.  

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

WY-184Q-227  1480.210 Acres  
T.0130N, R.1030W, 06th PM, WY  
Sec. 017  LOTS 1-5;  
017  N2;  
018  LOTS 5-8;  
018  E2,E2W2;  
019  LOTS 5-11;  
020  LOTS 1-5;  
Sweetwater County  
Rock Springs FO  

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

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

Formerly Lease No.  
Stipulations:  

WY_SW_NSO_PHMAL  
WY_SW_TLS_PHMAL  
WY_SW_TLS_PHMAWCA  
WY_SW_CSU_PHMA  

TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.  
CSU (1) Surface occupancy or use within the Pine Mountain Special Management Area 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 Rock Springs Field Office GIS database; (3) protecting Class II Visual Resource Management Areas.  

DOI-BLM-WY-0000-2018-0004-EA  5-49
acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game
mapped on the Rock Springs Field Office GIS database; (2) protecting Class II Visual Resource Management Areas. *DELETE IN PART (82.470 acres). The following portions of Parcel 227 are within the Red Creek Badlands
Wilderness Study Area. This Wilderness Study Area is closed to new oil and gas leasing per 1996 Green River RMP pg. 23-24.
T.0130N, R.0103W, 06th PM, WY Sec. 019 LOTS 8-10
*DEFER IN PART (1397.740 acres). Portions of Parcel 227 are located inside the Greater Little Mountain area. These portions of the parcel will be deferred pending the completion of the RSFO
RMP revision, which is recommending management changes to the area. T.0130N, R.0103W, 06th PM, WY Sec. 017 LOTS 1-5;
018 LOTS 5-8;
018 E2,E2W2;
019 LOTS 5-7,11;
020 LOTS 1-5;

T.0130N, R.0103W, 06th PM, WY Sec. 021 LOTS 1-4;
026 LOTS 1-5;
026 N2N2,NESE;
027 LOTS 1-5;
027 S2NE,W2;
028 LOTS 1;
028 E2,NENW,S2NW,E2SW;

T.0130N, R.0103W, 06th PM, WY Sec. 028 LOTS 1-5;
029 NWNE,NENW,S2N2,S2;
030 LOTS 5-11;
030 E2SW,SE;
031 LOTS 5-14;
031 E2SE,SE;
032 LOTS 1-10;
032 W2SW,SESW,SWSE;

Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WS_SW_TLS_PHMA
WS_SW_TLS_PHMAWCA
WS_SW_CSU_PHMA

TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting resource values
within the Pine Mountain Special Management Area. 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 Rock Springs Field Office GIS database; (3) protecting big game

T.0130N, R.0103W, 06th PM, WY Sec. 028 SWSW, NWSW;

T.0130N, R.0103W, 06th PM, WY Sec. 026 LOTS 1-4;
026 N2N2,NESE;
027 LOTS 1-5;
027 S2NE,W2;
028 LOTS 1;
028 E2,NENW,S2NW,E2SW;

T.0130N, R.0103W, 06th PM, WY Sec. 029 LOTS 1,2;
029 NWNE,NENW,S2N2,S2;
030 LOTS 5-11;
030 E2SW,SE;
031 LOTS 5-14;
031 E2SE,SE;
032 LOTS 1-10;
032 W2SW,SESW,SWSE;

Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WS_SW_TLS_PHMAWCA
WS_SW_CSU_PHMA

T.0130N, R.0103W, 06th PM, WY Sec. 030 LOTS 1-5;
030 NE,NESW,S2SW,N2SE;
031 LOTS 1-4;
031 N2W2,NE;
032 LOTS 1-8;

T.0130N, R.0103W, 06th PM, WY Sec. 030 LOTS 1-5;
030 NE,NESW,S2SW,N2SE;
031 LOTS 1-4;
031 N2W2,NE;
032 LOTS 1-8;

Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WS_SW_TLS_PHMA
WS_SW_TLS_PHMAWCA
WS_SW_CSU_PHMA

T.0130N, R.0103W, 06th PM, WY Sec. 032 LOTS 8-10;
032 LOTS 1-5;
032 NE,NESW,S2SW,N2SE;
033 LOTS 1-4;
033 N2W2,NE;
034 LOTS 1-8;

WS_SW_TLS_PHMA
WS_SW_TLS_PHMAWCA
WS_SW_CSU_PHMA

T.0130N, R.0103W, 06th PM, WY Sec. 033 LOTS 1-5;
033 NE,NESW,S2SW,N2SE;
034 LOTS 1-4;
034 N2W2,NE;
035 LOTS 1-8;

WS_SW_TLS_PHMA
WS_SW_TLS_PHMAWCA
WS_SW_CSU_PHMA

T.0130N, R.0103W, 06th PM, WY Sec. 034 LOTS 1-5;
034 NE,NESW,S2SW,N2SE;
035 LOTS 1-4;
035 N2W2,NE;
036 LOTS 1-8;

WS_SW_TLS_PHMA
WS_SW_TLS_PHMAWCA
WS_SW_CSU_PHMA

T.0130N, R.0103W, 06th PM, WY Sec. 035 LOTS 1-5;
035 NE,NESW,S2SW,N2SE;
036 LOTS 1-4;
036 N2W2,NE;
037 LOTS 1-8;

WS_SW_TLS_PHMA
WS_SW_TLS_PHMAWCA
WS_SW_CSU_PHMA

T.0130N, R.0103W, 06th PM, WY Sec. 036 LOTS 1-5;
036 NE,NESW,S2SW,N2SE;
037 LOTS 1-4;
037 N2W2,NE;
038 LOTS 1-8;

WS_SW_TLS_PHMA
WS_SW_TLS_PHMAWCA
WS_SW_CSU_PHMA

T.0130N, R.0103W, 06th PM, WY Sec. 037 LOTS 1-5;
037 NE,NESW,S2SW,N2SE;
038 LOTS 1-4;
038 N2W2,NE;
mitigation of anticipated impacts; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting Class II Visual Resource Management Areas.

*DELETE IN PART (1617.410 acres). The following portions of Parcel 231 are within the Red Creek No Leasing Area. This No Leasing Area is closed to new oil and gas leasing per 1996 Green River RMP pg. 12.

T.0130N, R.0103W, 06th PM, WY Sec. 029  S2;
  030 LOTS 6, 10-11;
  030 E2SW,SE;
  031 LOTS 5-14;
  031 SE, E2SW;
  032 LOTS 1-10;
  032 W2SW, S2SE, SWSE

*DELETE IN PART (477.15 acres). Portions of Parcel 230 are located inside the Greater Little Mountain area. These portions of the parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

T.0130N, R.0103W, 06th PM, WY Sec. 029  LOTS 1,2;
  029 NENW, NWNE, S2N2;
  030 LOTS 5, 7-9

WY-184Q-231  1002.740 Acres
T.0130N, R.1030W, 06th PM, WY Sec. 033  LOTS 1-10;
  033 N2NW;
  034 LOTS 1-6;
  034 NW;
  035 LOTS 1-5;
  035 NESE, S2SE;

Sweetwater County
Rock Springs FO
Formerly Lease No. 1
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA

TLS (1) May 1 to Jun 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game parturition.

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

CSU (1) Surface occupancy or use within the Pine Mountain Special Management Area 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 Rock Springs Field Office GIS database; (3) protecting resource values of the Pine Mountain Special Management Area.

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

*DELETE IN PART (817.71 acres). The following portions of Parcel 231 are within the Red Creek No Leasing Area. This No Leasing Area is closed to new oil and gas leasing per 1996 Green River RMP pg. 12.

T.0130N, R.0103W, 06th PM, WY Sec. 033  LOTS 1-10;
  034 LOTS 4,5,6;
  034 S2NW

*DELETE IN PART (185.030 acres). Portions of Parcel 231 are located inside the Greater Little Mountain area. These portions of the parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

T.0130N, R.0103W, 06th PM, WY Sec. 034  LOTS 1-10;
  034 N2NW, SENW;
  035 LOTS 1-5;
  035 NESE, S2SE;

WY-184Q-232  2181.360 Acres
T.0140N, R.1030W, 06th PM, WY Sec. 001  LOTS 5-8;
  001 S2NW, S2;
  002 LOTS 5-7;
  002 SESE;
  003 LOTS 5-8;
  009 SESE;
  011 NESE;
  012 ALL;
  013 ALL;

Sweetwater County
Rock Springs FO
Formerly Lease No. 3
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA

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

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

*DEFER ALL (2181.360 acres). Parcel 232 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

WY-184Q-233  1869.880 Acres
T.0140N, R.1030W, 06th PM, WY Sec. 005  LOTS 5-11;
  005 NESE;
  006 LOTS 8-17;
  006 S2NE, SENW, E2SW;
  007 LOTS 5-17;
  008 LOTS 1;
  008 NE, NENW, S2NW, S2;

Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA

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

TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.

*DEFER ALL (1869.880 acres). Parcel 233 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

WY-184Q-234  1562.530 Acres
T.0140N, R.1030W, 06th PM, WY Sec. 014  ALL;
  015 S2NW, S2;
  017 LOTS 1-5;
  017 N2;

Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3

WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA

DOI-BLM-WY-0000-2018-0004-EA  5-51
<table>
<thead>
<tr>
<th>Lease Stipulation No.</th>
<th>Formerly Lease No.</th>
<th>Stipulations:</th>
<th>GIS database; (3) protecting big game crucial winter range.</th>
</tr>
</thead>
<tbody>
<tr>
<td>WY-184Q-235</td>
<td>2035.040 Acres</td>
<td></td>
<td>-DEFER ALL (1562.530 acres). Parcel 234 is located inside</td>
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<tr>
<td>T.0140N, R.1030W, 06th PM, WY</td>
<td>2035.040 Acres</td>
<td></td>
<td>the Greater Little Mountain area. The parcel will be</td>
</tr>
<tr>
<td>Sec. 018</td>
<td>Lots 5-12;</td>
<td></td>
<td>deferred pending the completion of the RSFO RMP revision,</td>
</tr>
<tr>
<td>018 NENE,SWNE,E2SW,W2SE;</td>
<td>019 LOTS 5-11;</td>
<td></td>
<td>which is recommending management changes to the area.</td>
</tr>
<tr>
<td>019 W2E2,E2W2,SESE;</td>
<td>020 LOTS 1-6;</td>
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<td>020 SESE;</td>
<td>021 ALL;</td>
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<td>Sweetwater County</td>
<td>Rock Springs FO</td>
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<td>Formerly Lease No.</td>
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<td>Stipulations:</td>
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<tr>
<td>WY_SW_CSU_PHMA</td>
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<tr>
<td>TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WY-184Q-236</td>
<td>2520.000 Acres</td>
<td></td>
<td>-DEFER ALL (2520.000 acres). Parcel 236 is located inside</td>
</tr>
<tr>
<td>T.0140N, R.1030W, 06th PM, WY</td>
<td>2520.000 Acres</td>
<td></td>
<td>the Greater Little Mountain area. The parcel will be</td>
</tr>
<tr>
<td>Sec. 022</td>
<td>ALL;</td>
<td></td>
<td>deferred pending the completion of the RSFO RMP revision,</td>
</tr>
<tr>
<td>023 ALL;</td>
<td></td>
<td></td>
<td>which is recommending management changes to the area.</td>
</tr>
<tr>
<td>024 N2,SW,W2SE,SESE;</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>025 ALL;</td>
<td></td>
<td></td>
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<tr>
<td>Sweetwater County</td>
<td>Rock Springs FO</td>
<td></td>
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<tr>
<td>Formerly Lease No.</td>
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<tr>
<td>Stipulations:</td>
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<td></td>
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<tr>
<td>Lease Notice No. 1</td>
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<td>Lease Notice No. 2</td>
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<td>Lease Notice No. 3</td>
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<td>Lease Stipulation No. 1</td>
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<td>Lease Stipulation No. 2</td>
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<td>Lease Stipulation No. 3</td>
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<tr>
<td>WY_SW_TLS_PHMAL</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>WY_SW_TLS_PHMAWCA</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>WY_SW_CSU_PHMA</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WY-184Q-237</td>
<td>2560.000 Acres</td>
<td></td>
<td>-DEFER ALL (2560.000 acres). Parcel 237 is located inside</td>
</tr>
<tr>
<td>T.0140N, R.1030W, 06th PM, WY</td>
<td>2560.000 Acres</td>
<td></td>
<td>the Greater Little Mountain area. The parcel will be</td>
</tr>
<tr>
<td>Sec. 026</td>
<td>ALL;</td>
<td></td>
<td>deferred pending the completion of the RSFO RMP revision,</td>
</tr>
<tr>
<td>027 ALL;</td>
<td></td>
<td></td>
<td>which is recommending management changes to the area.</td>
</tr>
<tr>
<td>028 ALL;</td>
<td></td>
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<tr>
<td>029 ALL;</td>
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<tr>
<td>Sweetwater County</td>
<td>Rock Springs FO</td>
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<tr>
<td>Formerly Lease No.</td>
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<tr>
<td>Stipulations:</td>
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<td>Lease Notice No. 1</td>
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<td>Lease Stipulation No. 1</td>
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<td>Lease Stipulation No. 3</td>
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<tr>
<td>WY_SW_NSO_PHMAL</td>
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<tr>
<td>WY_SW_TLS_PHMAL</td>
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<tr>
<td>WY_SW_TLS_PHMAWCA</td>
<td></td>
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<td></td>
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<tr>
<td>WY_SW_CSU_PHMA</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WY-184Q-238</td>
<td>1820.090 Acres</td>
<td></td>
<td>-DEFER ALL (1820.090 acres). Parcel 238 is located inside</td>
</tr>
<tr>
<td>T.0140N, R.1030W, 06th PM, WY</td>
<td>1820.090 Acres</td>
<td></td>
<td>the Greater Little Mountain area. The parcel will be</td>
</tr>
<tr>
<td>Sec. 033</td>
<td>ALL;</td>
<td></td>
<td>deferred pending the completion of the RSFO RMP revision,</td>
</tr>
<tr>
<td>034 ALL;</td>
<td></td>
<td></td>
<td>which is recommending management changes to the area.</td>
</tr>
<tr>
<td>035 ALL;</td>
<td></td>
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<tr>
<td>Sweetwater County</td>
<td>Rock Springs FO</td>
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<tr>
<td>Formerly Lease No.</td>
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<td>Stipulations:</td>
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<td>Lease Notice No. 1</td>
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<td>Lease Notice No. 3</td>
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<td>Lease Stipulation No. 1</td>
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<td>Lease Stipulation No. 2</td>
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<td>Lease Stipulation No. 3</td>
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<tr>
<td>WY_SW_NSO_PHMAL</td>
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<td>WY_SW_TLS_PHMAL</td>
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<tr>
<td>WY_SW_TLS_PHMAWCA</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>WY_SW_CSU_PHMA</td>
<td></td>
<td></td>
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<tr>
<td>TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.</td>
<td></td>
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<tr>
<td>WY-184Q-239</td>
<td>1840.000 Acres</td>
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<td></td>
</tr>
<tr>
<td>T.0140N, R.1030W, 06th PM, WY</td>
<td>1840.000 Acres</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sec. 033</td>
<td>N2NE,SWNE,W2,N2SE,SWSE;</td>
<td></td>
<td></td>
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<tr>
<td>034 ALL;</td>
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<td>035 ALL;</td>
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<tr>
<td>Sweetwater County</td>
<td>Rock Springs FO</td>
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<td>Formerly Lease No.</td>
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<td>Stipulations:</td>
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<td>Lease Stipulation No. 1</td>
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<tr>
<td>WY_SW_NSO_PHMAL</td>
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<tr>
<td>WY_SW_TLS_PHMAL</td>
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<tr>
<td>WY_SW_TLS_PHMAWCA</td>
<td></td>
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<tr>
<td>WY_SW_CSU_PHMA</td>
<td></td>
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<tr>
<td>TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.</td>
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</tr>
</tbody>
</table>

DOI-BLM-WY-0000-2018-0004-EA  5-52
Lease Stipulation No. 3

WY-184Q-240 2167.950 Acres
T.0150N, R.1030W, 06th PM, WY
Sec. 001 LOTS 5-8;

001 S2N2,S2;
002 LOTS 9-14;
002 S2S2;
003 LOTS 6-10;
003 SW,W2SE,SESE;
004 LOTS 5-13;
004 SE,SE,S2SE;
005 LOTS 5-9;
005 SWNE,S2NW,NWSW;

Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-241 2532.270 Acres
T.0150N, R.1030W, 06th PM, WY
Sec. 006 LOTS 8-14;

006 S2NE,SENW,E2SW,SE;
007 LOTS 5-7;
007 NNWE,E2NW,NESE;
009 E2,SWSW;
010 ALL;
011 ALL;

Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2

WY-184Q-242 2505.160 Acres
T.0150N, R.1030W, 06th PM, WY
Sec. 012 ALL;

012 LOTS 1,2;
013 N2,N2S2,52SE;
014 LOTS 1-4;
014 N2,N2S2;
015 LOTS 1,2;
015 N2,SW,N2SE;

Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-243 2110.860 Acres
T.0150N, R.1030W, 06th PM, WY
Sec. 016 ALL;

017 LOTS 1-5;
018 LOTS 8-11;
018 E2SW,W2SE;
019 LOTS 5-8,11-16;
019 W2NE,E2NW;
020 LOTS 1-6;
021 LOTS 1-9;
021 N2NW,SESE;

Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

*DEFER ALL (2532.270 acres). Parcel 241 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

*DEFER ALL (2505.160 acres). Parcel 242 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

*DEFER ALL (2110.860 acres). Parcel 243 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.
T.0150N, R.1030W, 06th PM, WY

WY-184Q-245 2480.000 Acres
T.0150N, R.1030W, 06th PM, WY
Sec. 026 NW,SE,NW,W2,SE;
027 ALL;
028 ALL;
029 ALL;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
T.0150N, R.1030W, 06th PM, WY
Sec. 024 NW,SE,NW,W2,SE;
025 ALL;
026 ALL;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.

T.0150N, R.1030W, 06th PM, WY
Sec. 022 NW,SE,NW,W2,SE;
023 ALL;
024 ALL;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.

T.0150N, R.1030W, 06th PM, WY
Sec. 020 NW,SE,NW,W2,SE;
021 ALL;
022 ALL;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
WY-184Q-250 2460.530 Acres
T.0160N, R.1030W, 06th PM, WY
Sec. 020 ALL;
022 ALL;
030 LOTS 5, 6, 8;
030 N2NE, E2NW, SESW, S2SE;
031 LOTS 5;
031 SESW, S2SE;
032 ALL;

Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAMCA
WY_SW_CSU_PHMA
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.

WY-184Q-251 2204.480 Acres
T.0160N, R.1030W, 06th PM, WY
Sec. 033 LOTS 1, 2;
033 NE, S2NW, SW, N2SE;
034 LOTS 1-4;
034 N2, N2SW;
035 LOTS 1-5;
035 N2;
036 LOTS 1-4;
036 W2E2, W2;

Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAMCA
WY_SW_CSU_PHMA
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.

*DEFER IN PART (795.450 acres). Portions of Parcel 251 are located inside the Greater Little Mountain area. These portions of the parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

T.0160N, R.1030W, 06th PM, WY
Sec. 031 LOTS 4, 5;
031 SESW, S2SE;
032 ALL;

Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAMCA
WY_SW_CSU_PHMA
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.

WY-184Q-252 2230.810 Acres
T.0160N, R.1030W, 06th PM, WY
Sec. 033 LOTS 1, 2;
033 NE, S2NW, SW, N2SE;
034 LOTS 1-4;
034 N2, N2SW;
035 LOTS 1-5;
035 N2;
036 LOTS 1-4;
036 W2E2, W2;

Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAMCA
WY_SW_CSU_PHMA
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.

WY-184Q-253 1920.400 Acres
T.0170N, R.1030W, 06th PM, WY
Sec. 006 LOTS 1-7;
006 S2NE, SENW, E2SW, SE;
008 N2NE, SW, W2SE;
018 LOTS 1, 2, 3, 4, 5, 6, 7;
018 N2NE, SW, NENW, NWSE;
020 ALL;
028 ALL;

Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.

WY-184Q-254 2553.870 Acres
T.0170N, R.1030W, 06th PM, WY
Sec. 006 LOTS 1-7;
006 S2NE, SENW, E2SW, SE;
008 N2NE, SW, W2SE;
018 LOTS 1, 2, 3, 4, 5, 6, 7;
018 N2NE, SW, NENW, NWSE;
020 ALL;
028 ALL;

Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.

WY-184Q-255 2560.000 Acres
T.0170N, R.1030W, 06th PM, WY
Sec. 012 ALL;
014 ALL;
022 ALL;
Sweetwater County

**WY-184Q-256** 1920.000 Acres  
T.0170N, R.1030W, 06th PM, WY
Sec. 026 ALL; 032 ALL; 034 ALL;  
Sweetwater County  
Rock Springs FO  
Formerly Lease No.  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.  
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.

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Sweetwater County  
Rock Springs FO  
Formerly Lease No.  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.

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Sweetwater County  
Rock Springs FO  
Formerly Lease No.  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.

---

Sweetwater County  
Rock Springs FO  
Formerly Lease No.  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.  
TLS (1) Jan 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.

---

Sweetwater County  
Rock Springs FO  
Formerly Lease No.  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.
Raptor nesting habitat.

GIS database; (3) protecting big game

Onshore Oil and Gas Order No. 1

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

WY-184Q-265 1920.000 Acres

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

Formerly Lease No.

Sweetwater County
Rock Springs FO

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

WY-184Q-268 1751.090 Acres

Lease Notice No. 3

Formerly Lease No.

WY-184Q-269 1649.730 Acres

Lease Notice No. 3

Formerly Lease No.

WY-184Q-267 1920.320 Acres

Lease Notice No. 3
<table>
<thead>
<tr>
<th>Parcel</th>
<th>Acres</th>
<th>Area</th>
<th>Map</th>
<th>Stipulations</th>
<th>Operator and Surface Managing Agency</th>
<th>Restrictions/Prohibitions</th>
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</thead>
<tbody>
<tr>
<td>WY-184Q-270</td>
<td>1045.490</td>
<td>Sage Creek No Leasing Area</td>
<td>270</td>
<td>This No Leasing Area is closed to new oil and gas leasing per 1996 Green River RMP pg. 12.</td>
<td>(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 Rock Springs Field Office GIS database; (3) protecting Class II Visual Resource Management Areas.</td>
<td>(1) Surface occupancy or use within the Greater Red Creek Mountain area and Sage Creek ACEC. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to these areas.</td>
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<tr>
<td>WY-184Q-271</td>
<td>2296.540</td>
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<td>271</td>
<td>This No Leasing Area is closed to new oil and gas leasing per 1996 Green River RMP pg. 12.</td>
<td>(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 Rock Springs Field Office GIS database; (3) protecting Class II Visual Resource Management Areas.</td>
<td>(1) Surface occupancy or use within the Greater Red Creek Area (Sage Creek) 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 Rock Springs Field Office GIS database; (3) protecting natural resource values within the Greater Red Creek Area (Sage Creek).</td>
</tr>
<tr>
<td>WY-184Q-272</td>
<td>1477.340</td>
<td></td>
<td>272</td>
<td>This No Leasing Area is closed to new oil and gas leasing per 1996 Green River RMP pg. 12.</td>
<td>(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 Rock Springs Field Office GIS database; (3) protecting cultural and scenic values of the Cherokee Trail - Southern Route.</td>
<td>(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 Rock Springs Field Office GIS database; (3) protecting cultural and scenic values of the Cherokee Trail - Southern Route.</td>
</tr>
</tbody>
</table>
GIS database; (3) protecting Class II Visual Resource Management Areas.

*DELETE IN PART (39.970 acres). The following portions of Parcel 274 are within the Red Creek Badlands Wilderness Study Area. This Wilderness Study Area is closed to new oil and gas leasing per 1996 Green River RMP pg. 23-24.

T.0130N, R.0104W, 06th PM, WY Sec. 007 LOT 9
*DEFER IN PART (1443.560 acres).

Portions of Parcel 274 are located inside the Sage Creek ACEC. These portions of the parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

T.0130N, R.0104W, 06th PM, WY Sec. 005 LOTS 9-24;
006 LOTS 15-30;
008 LOTS 1-4,8;

WY-184Q-275 2174.640 Acres
T.0130N, R.1040W, 06th PM, WY Sec. 009 LOTS 1-12;
009 SESE;
010 LOTS 4-19;
011 LOTS 5-18;
012 LOTS 4-17;
012 E2SW;

Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_SW_NSQ_PHMA
WY_SW_TLS_GHMA
WY_SW_TLS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA

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

CSU (1) Surface occupancy or use within the Pine Mountain Special Management Area.

*DELETE IN PART (79.990 acres). The following portions of Parcel 275 are within the Red Creek No Leasing Area and the Red Creek Badlands Wilderness Study Area. These areas are closed to new oil and gas leasing per 1996 Green River RMP pg. 12 and pg. 23-24.

T.0130N, R.0104W, 06th PM, WY Sec. 009 SESE;
010 LOT 16
*DEFER IN PART (2094.650 acres).

Portions of Parcel 275 are located inside the Greater Little Mountain area and Sage Creek ACEC. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to these areas.

T.0130N, R.0104W, 06th PM, WY Sec. 009 LOTS 1-12;
010 LOTS 4-15, 17-19;
011 LOTS 5-18;
012 LOTS 4-17;
012 E2SW;

WY-184Q-276 1356.410 Acres
T.0130N, R.1040W, 06th PM, WY Sec. 013 LOTS 1-15;
013 NESE;
014 LOTS 1-9, 11;
015 LOTS 1,2,6
015 E2NE

Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA

TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting Class II Visual Resource Management Areas.

*DELETE IN PART (119.610 acres). The following portions of Parcel 276 are within the Red Creek No Leasing Area and the Red Creek Badlands Wilderness Study Area. These areas are closed to new oil and gas leasing per 1996 Green River RMP pg. 12 and pg. 23-24.

T.0130N, R.0104W, 06th PM, WY Sec. 014 LOT 10;
015 LOT 5
015 LOT 3

*DEFER IN PART (1236.800 acres).

Portions of Parcel 276 are located inside the Greater Little Mountain area. These portions of the parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

T.0130N, R.0104W, 06th PM, WY Sec. 013 LOTS 1-15;
013 NESE;
014 LOTS 1-9, 11;
015 LOTS 1,2,6
015 E2NE

WY-184Q-277 1454.310 Acres
T.0130N, R.1040W, 06th PM, WY Sec. 024 LOTS 16;
025 LOTS 4,5,11,12,19;
029 LOTS 5,8-15;
032 LOTS 1-8;
033 LOTS 2-15;

Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3

WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA

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

CSU (1) Surface occupancy or use within the Pine Mountain Special Management Area 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 Rock Springs Field Office GIS database; (3) protecting natural resource values within the Pine Mountain Special Management Area.

CSU (1) Surface occupancy or use within the Pine Mountain Special Management Area 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 Rock Springs Field Office GIS database; (3) protecting cultural and scenic values of the Cherokee Trail - Southern Route.

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 Rock Springs Field Office GIS database; (3) protecting Class II Visual Resource Management Areas.

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 Rock Springs Field Office GIS database; (3) protecting Class II Visual Resource Management Areas.

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 Rock Springs Field Office GIS database; (3) protecting natural resource values within the Pine Mountain Special Management Area.

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 Rock Springs Field Office GIS database; (3) protecting protection of big game crucial winter range.

CSU (1) Surface occupancy or use within the Pine Mountain Special Management Area 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 Rock Springs Field Office GIS database; (3) protecting Class II Visual Resource Management Areas.

CSU (1) Surface occupancy or use within the Pine Mountain Special Management Area 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 Rock Springs Field Office GIS database; (3) protecting cultural and scenic values of the Cherokee Trail - Southern Route.

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 Rock Springs Field Office GIS database; (3) protecting Class II Visual Resource Management Areas.

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 Rock Springs Field Office GIS database; (3) protecting cultural and scenic values of the Cherokee Trail - Southern Route.

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 Rock Springs Field Office GIS database; (3) protecting Class II Visual Resource Management Areas.

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 Rock Springs Field Office GIS database; (3) protecting natural resource values within the Pine Mountain Special Management Area.

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 Rock Springs Field Office GIS database; (3) protecting protection of big game crucial winter range.
WY-184Q-278  1545.500 Acres
T.0130N, R.1040W, 06th PM, WY
Sec. 030  LOTS 10-24;
  031  LOTS 9-24;
  032  LOTS 9-16;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Lease Notice No. 4

WY-184Q-279  1289.710 Acres
T.0130N, R.1040W, 06th PM, WY
Sec. 031  LOTS 8-14;
  032  LOTS 6-14;
  034  LOTS 6-21;
  035  LOTS 6-17;
  036  TR 59;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Lease Notice No. 4

WY-184Q-280  1641.510 Acres
T.0140N, R.1040W, 06th PM, WY
Sec. 001  LOTS 5-9;
  002  LOTS 6-12;
  003  LOTS 5-14;
  004  LOTS 6-12;
  005  S2N2,N2SW,SESW,SE;
  006  LOTS 8-11;
  007  LOTS 6-13;
  008  LOTS 1-3;
  009  LOTS 1-3;
  010  E2,SW2;
  011  LOTS 1-2;
  012  NE,E2,SW;
  013  S2N2,SW2;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Lease Notice No. 4

WY-184Q-281  2167.460 Acres
T.0140N, R.1040W, 06th PM, WY
Sec. 005  LOTS 5-8;
  006  S2N2,N2SW,SESW,SE;
  007  LOTS 6-13;
  008  LOTS 1-3;
  009  S2N2,SW2;
  010  E2,SW2;
  011  LOTS 1-3;
  012  NE,E2,SW;
  013  S2N2,SW2;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Lease Notice No. 4

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

*DELETE ALL (1545.310 acres) Parcel 277 is within the Red Creek No Leasing Area. This No Leasing Area is closed to new oil and gas leasing per 1996 Green River RMP pg. 12.

*DELETE ALL (1641.510 acres) Parcel 278 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

*DELETE ALL (1545.500 acres) Parcel 279 is within the Red Creek No Leasing Area. This No Leasing Area is closed to new oil and gas leasing per 1996 Green River RMP pg. 12.

*DELETE ALL (1454.310 acres) Parcel 280 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

*DELETE ALL (2292.440 acres) Parcel 281 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

*DELETE ALL (2167.460 acres). Parcel 282 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.
arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting steep slopes, visual resources, recreational, watershed, cultural, and wildlife values. *DEFER ALL (1885.050 acres). Parcel 284 is located inside the Greater Little Mountain area and Sage Creek ACEC. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to these areas.

WY-184Q-285  1331.650 Acres
T.0140N, R.1040W, 06th PM, WY
Sec. 021 LOTS 1-2;
   021 N2,SW,W2SE;
   022 LOTS 1-5;
   022 W2NW;
   023 LOTS 1-5;
   023 NE;
   024 LOTS 1-8;
   024 W2NW;
Sweetwater County
Rock Springs FO
Formerly Lease No.

Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAWCA
WY_SW_TLS_PHMAL
WY_SW_NSO_PHMAL

TLS   (1) May 1 to Jun 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game parturition.
TLS   (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
CSU   (1) Surface occupancy or use within the Greater Red Creek Area 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 Rock Springs Field Office GIS database; (3) protecting steep slopes, visual resources, recreational, watershed, cultural, and wildlife values. *DEFER ALL (156.150 acres). Parcel 286 is located inside the Greater Little Mountain area and Sage Creek ACEC. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to these areas.

WY-184Q-287  2485.480 Acres
T.0140N, R.1040W, 06th PM, WY
Sec. 029 ALL;
   030 LOTS 5-8;
   030 E2,E2W2;
   031 LOTS 5-8;
   031 E2,NEW,E2SW;
   032 ALL;
Sweetwater County
Rock Springs FO
Formerly Lease No.

Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAWCA
WY_SW_TLS_PHMAL
WY_SW_NSO_PHMAL

TLS   (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.
CSU   (1) Surface occupancy or use within the Greater Red Creek Area will be restricted or prohibited unless the operator and surface managing agency

DOI-BLM-WY-0000-2018-0004-EA  5-61
CSU (1) Surface occupancy or use within the Greater Red Creek Area 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 Rock Springs Field Office GIS database; (3) protecting steep slopes, visual resources, recreational, watershed, cultural, and wildlife values.

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 Rock Springs Field Office GIS database; (3) protecting Class II Visual Resource Management Areas.

CSU (1) Surface occupancy or use within 1/4 mile or visual horizon of the trail, whichever is closer, 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 Rock Springs Field Office GIS database; (3) protecting cultural and scenic values of the Cherokee Trail - Southern Route.

*DEFER ALL (2485.480 acres). Parcel 287 is located inside the Greater Little Mountain area and Sage Creek ACEC. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to these areas.

**WY-184Q-288** 1850.020 Acres  
T.0140N, R.1040W, 06th PM, WY  
Sec. 033  ALL;  
034  LOTS 1,2;  
034  N2,SW,W2SE;  
035  LOTS 1-5;  
035  W2NW;  
036  LOTS 1-7;  
036  SENE,SESW,W2SE;  
Sweetwater County  
Rock Springs FO  
Formerly Lease No.  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
WY_SW_NSO_PHMAL  
WY_SW_TLS_PHMAL  
WY_SW_TLS_PHMAWCA  
WY_SW_CSR_PHMA  
*DEFER IN PART (319.81 acres). Portions of Parcel 289 are located inside the Greater Little Mountain area. These portions of the parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.  
T.0150N, R.1040W, 06th PM, WY  
Sec. 001  LOTS 5,6;  
001  S2N2,S2;  
002  LOTS 5-8;  
002  N2,SW,S2SE,SWSE;  
003  LOTS 1;  
003  S2N2,S2SE;  
004  SE;  
008  ALL;  
Sweetwater County  
Rock Springs FO  
Formerly Lease No.  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
WY_SW_NSO_PHMAL  
WY_SW_TLS_PHMAL  
WY_SW_TLS_PHMAWCA  
WY_SW_CSR_PHMA  
WY-184Q-289 2118.140 Acres  
T.0150N, R.1040W, 06th PM, WY  
Sec. 001  LOTS 5,6;  
001  S2N2,S2;  
002  LOTS 5-8;  
002  N2,SW,S2SE,SWSE;  
003  LOTS 1;  
003  N2,NE,N2NW,S2SE;  
004  ALL;  
Sweetwater County  
Rock Springs FO  
Formerly Lease No.  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
WY_SW_NSO_PHMAL  
WY_SW_TLS_PHMAL  
WY_SW_TLS_PHMAWCA  
WY_SW_CSR_PHMA  
WY-184Q-290 2396.220 Acres  
T.0150N, R.1040W, 06th PM, WY  
Sec. 009  S2N2,S2;  
010  ALL;  
011  ALL;  
012  LOTS 1;  
012  N2,SW,N2SE,SWSE;  
Sweetwater County  
Rock Springs FO  
Formerly Lease No.  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
WY_SW_TLS_PHMAL  
WY_SW_TLS_PHMAWCA  
WY_SW_CSR_PHMA  
*DEFER ALL (2396.220 acres). Parcel 290 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.
<table>
<thead>
<tr>
<th>Lease Notice No. 1</th>
<th>Lease Notice No. 2</th>
<th>Lease Notice No. 3</th>
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<td>Stipulations:</td>
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<td>Sec. 026 NENE, S2N2, S2;</td>
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<td>Sec. 027 ALL;</td>
<td>Lease Notice No. 2</td>
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<td>Sec. 028 ALL;</td>
<td>Lease Notice No. 3</td>
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<tr>
<td>Sec. 029 N2, SW;</td>
<td>Lease Stipulation No. 1</td>
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<td>Sweetwater County Rock Springs FO</td>
<td>Lease Stipulation No. 2</td>
<td></td>
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<td>WY-184Q-294 2280.000 Acres</td>
<td>Lease Stipulation No. 3</td>
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<td>T.0150N, R.1040W, 06th PM, WY</td>
<td>Lease Notice No. 1</td>
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<tr>
<td>Sec. 026 NENE, S2N2, S2;</td>
<td>Lease Notice No. 2</td>
<td></td>
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<tr>
<td>Sec. 027 ALL;</td>
<td>Lease Notice No. 3</td>
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<tr>
<td>Sec. 028 ALL;</td>
<td>Lease Stipulation No. 1</td>
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</tr>
<tr>
<td>Sec. 029 N2, SW;</td>
<td>Lease Stipulation No. 2</td>
<td></td>
</tr>
<tr>
<td>Sec. 029 N2, SW;</td>
<td>Lease Stipulation No. 3</td>
<td></td>
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<tr>
<td>Sweetwater County Rock Springs FO</td>
<td>Formerly Lease No.</td>
<td></td>
</tr>
<tr>
<td>WY-184Q-296 1444.900 Acres</td>
<td>Stipulations:</td>
<td></td>
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<tr>
<td>T.0150N, R.1040W, 06th PM, WY</td>
<td>Lease Notice No. 1</td>
<td></td>
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<tr>
<td>Sec. 034 N2, SW, NWSE;</td>
<td>Lease Notice No. 2</td>
<td></td>
</tr>
<tr>
<td>Sec. 035 LOTS 1-4;</td>
<td>Lease Notice No. 3</td>
<td></td>
</tr>
<tr>
<td>Sec. 036 LOTS 1, 2;</td>
<td>Lease Stipulation No. 1</td>
<td></td>
</tr>
<tr>
<td>Sec. 036 E2, E2SW;</td>
<td>Lease Stipulation No. 2</td>
<td></td>
</tr>
<tr>
<td>Sec. 037 ALL;</td>
<td>Lease Stipulation No. 3</td>
<td></td>
</tr>
<tr>
<td>Sweetwater County Rock Springs FO</td>
<td>Formerly Lease No.</td>
<td></td>
</tr>
<tr>
<td>WY-184Q-297 1987.670 Acres</td>
<td>Stipulations:</td>
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<tr>
<td>T.0160N, R.1040W, 06th PM, WY</td>
<td>Lease Notice No. 1</td>
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<tr>
<td>Sec. 030 LOTS 5-8;</td>
<td>Lease Notice No. 2</td>
<td></td>
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<tr>
<td>Sec. 031 E2, E2SW;</td>
<td>Lease Notice No. 3</td>
<td></td>
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<tr>
<td>Sec. 032 ALL;</td>
<td>Lease Stipulation No. 1</td>
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</tr>
<tr>
<td>Sec. 033 ALL;</td>
<td>Lease Stipulation No. 2</td>
<td></td>
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<tr>
<td>Sec. 034 N2, SW;</td>
<td>Lease Stipulation No. 3</td>
<td></td>
</tr>
<tr>
<td>Sweetwater County Rock Springs FO</td>
<td>Formerly Lease No.</td>
<td></td>
</tr>
</tbody>
</table>

GIS database; (3) protecting big game crucial winter range.

TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting raptor nesting habitat.

*DEFER ALL (2480.000 acres). Parcel 293 is located inside the Greater Little Mountain area. The parcel will be deferred pending the completion of the RSFO RMP revision, which is recommending management changes to the area.

<table>
<thead>
<tr>
<th>Lease Notice No. 1</th>
<th>Lease Notice No. 2</th>
<th>Lease Notice No. 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leases:</td>
<td>Stipulations:</td>
<td></td>
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<tr>
<td>Sec. 026 NENE, S2N2, S2;</td>
<td>Lease Notice No. 1</td>
<td></td>
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<tr>
<td>Sec. 027 ALL;</td>
<td>Lease Notice No. 2</td>
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<tr>
<td>Sec. 028 ALL;</td>
<td>Lease Notice No. 3</td>
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<tr>
<td>Sec. 029 N2, SW;</td>
<td>Lease Stipulation No. 1</td>
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<td>Sec. 029 N2, SW;</td>
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<tr>
<td>Sec. 029 N2, SW;</td>
<td>Lease Stipulation No. 3</td>
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<tr>
<td>Sweetwater County Rock Springs FO</td>
<td>Formerly Lease No.</td>
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<tr>
<td>WY-184Q-297 1987.670 Acres</td>
<td>Stipulations:</td>
<td></td>
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<tr>
<td>T.0160N, R.1040W, 06th PM, WY</td>
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<tr>
<td>Sec. 031 E2, E2SW;</td>
<td>Lease Notice No. 3</td>
<td></td>
</tr>
<tr>
<td>Sec. 032 ALL;</td>
<td>Lease Stipulation No. 1</td>
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<tr>
<td>Sec. 033 ALL;</td>
<td>Lease Stipulation No. 2</td>
<td></td>
</tr>
<tr>
<td>Sec. 034 N2, SW;</td>
<td>Lease Stipulation No. 3</td>
<td></td>
</tr>
<tr>
<td>Sweetwater County Rock Springs FO</td>
<td>Formerly Lease No.</td>
<td></td>
</tr>
</tbody>
</table>
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-298 1240.000 Acres
T.0160N, R.1040W, 06th PM, WY
Sec. 012  W2E2,E2NW,SW;
  024  ALL;
  026  N2S;
  034  N2SE,SWSE;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-299 2516.240 Acres
T.0170N, R.1040W, 06th PM, WY
Sec. 014  ALL;
  020  LOTS 5-8;
  022  ALL;
  026  N2N2W;
  030  LOTS 5-8;
  032  E2,E2W2;
  034  LOTS 5-8;
  036  N2N2S;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-300 2507.730 Acres
T.0180N, R.1040W, 06th PM, WY
Sec. 010  ALL;
  014  ALL;
  020  LOTS 5-8;
  022  S2N2,SE;
  030  LOTS 5-8;
  032  N2S;
  034  LOTS 5-8;
  036  ALL;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-301 2080.000 Acres
T.0180N, R.1040W, 06th PM, WY
Sec. 018  ALL;
  028  ALL;
  030  LOTS 5-8;
  032  ALL;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-302 2239.950 Acres
T.0190N, R.1040W, 06th PM, WY
Sec. 010  NENW,W2W2,E2NW;
  014  ALL;
  020  ALL;
  024  ALL;
  026  ALL;
  036  ALL;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Special Lease Notice: This parcel is located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridor functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1

NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting nesting Raptors.

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

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

TLS (1) Feb 1 to Jul 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.

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

TLS (1) Apr 1 to Aug 14; (2) as mapped on the Pinedale and Rock Springs Field Office GIS database; (3) protecting nesting Raptors.

TLS (1) Apr 10 to Jul 10; (2) as mapped on the Pinedale Field Office GIS database; (3) protecting mountain plover.

Raptors.

database; (3) protecting 100 year floodplains of intermittent channels.

CSU (1) Surface occupancy 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 in the Pinedale Field Office GIS database; (3) protecting big game crucial winter range.

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

CSU (1) Surface occupancy 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 in the Pinedale Field Office GIS database; (3) protecting big game crucial winter range.

CSU (1) Surface occupancy 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 in the Pinedale Field Office GIS database; (3) protecting big game crucial winter range.

CSU (1) Surface occupancy 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 in the Pinedale Field Office GIS database; (3) protecting big game crucial winter range.

CSU (1) Surface occupancy 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 in the Pinedale Field Office GIS database; (3) protecting big game crucial winter range.

CSU (1) Surface occupancy 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 in the Pinedale Field Office GIS database; (3) protecting big game crucial winter range.

CSU (1) Surface occupancy 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 in the Pinedale Field Office GIS database; (3) protecting big game crucial winter range.

CSU (1) Surface occupancy 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 in the Pinedale Field Office GIS database; (3) protecting big game crucial winter range.

CSU (1) Surface occupancy 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 in the Pinedale Field Office GIS database; (3) protecting big game crucial winter range.
database; (3) protecting nesting Raptors.
TLS (1) Apr 10 to Jul 10; (2) as mapped on the Pinedale Field Office GIS database; (3) protecting mountain plover.

WY-184Q-310 456.460 Acres
T.0290N, R.1080W, 06th PM, WY Sec. 006 LOTS 8-17,22,23; Sublette County
Pinedale FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHMAL
WY_SW_TLS_PHMAWCA
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Pinedale Field Office GIS database; (3) protecting big game crucial winter range.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Pinedale Field Office GIS database; (3) protecting nesting Raptors.
TLS (1) Apr 1 to Aug 14; (2) as mapped on the Pinedale Field Office GIS database; (3) protecting burrowing owl nesting habitat.
TLS (1) Apr 10 to Jul 10; (2) as mapped on the Pinedale Field Office GIS database; (3) protecting mountain plover.
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 Pinedale Field Office GIS database; (3) protecting Class I and/or Class II Visual Resource Management Areas.

WY-184Q-312 1828.640 Acres
T.0300N, R.1080W, 06th PM, WY Sec. 030 LOTS 5-20; 031 LOTS 5-20; 032 LOTS 1-16; Sublette County
Pinedale FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHMAL
WY_SW_TLS_PHMAWCA
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Pinedale Field Office GIS database; (3) protecting 100 year floodplains of intermittent channels.

WY-184Q-313 239.630 Acres
T.0300N, R.1080W, 06th PM, WY Sec. 033 LOTS 5,10-14; Sublette County
Pinedale FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHMAL
WY_SW_TLS_PHMAWCA
TLS (1) Nov 1 to Jul 31; (2) as mapped on the Pinedale Field Office GIS database; (3) protecting nesting Raptors.

WY-184Q-314 80.000 Acres
T.0320N, R.1080W, 06th PM, WY Sec. 031 N2SE; Sublette County
Pinedale FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Pinedale Field Office GIS database; (3) protecting big game crucial winter range.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Pinedale Field Office GIS database; (3) protecting nesting Raptors.
TLS (1) Feb 1 through Aug 15; (2) as mapped on the Pinedale Field Office GIS database; (3) protecting areas within 1 mile of bald eagle nests.
TLS (1) Nov 1 to Apr 1; (2) as mapped on the Pinedale Field Office GIS database (3) protecting eagle winter use areas.

WY-184Q-315 957.180 Acres
T.0300N, R.1090W, 06th PM, WY Sec. 002 LOTS 5-19; 002 NWSW; 015 LOTS 1,2,7-10,15,16; Sublette County
Pinedale FO
SOL UNIT
Formerly Lease No.
Stipulations:
of active bald eagle nests 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 Pinedale Field Office GIS database; (3) protecting raptor nesting areas.

CSU  (1) Surface occupancy 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 in the Pinedale Field Office GIS database; (3) protecting 100 year floodplains of intermittent channels.

*DELETE IN PART (85.830 acres). The following portions of Parcel 316 are within the Ross Butte Management Area. The Management Area is unavailable for oil and gas leasing per the November 2008 Pinedale RMP pg. 2-57.

T.0290N, R.1090W, 06th PM, WY Sec. 006 LOTS 10,11

WY-184Q-317  997.990 Acres
T.0290N, R.1090W, 06th PM, WY Sec. 018 LOTS 5-20;  019 LOTS 5,7,9,11,13,15,17,19

Sublette County
Pinedale FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_SW_TLS_GHMA
WY_SW_TLS_PHMAWCA
TLS  (1) Apr 1 to Aug 14; (2) as mapped on the Pinedale Field Office GIS database; (3) protecting raptor nesting areas.

T.0300N, R.1090W, 06th PM, WY Sec. 013 ALL;  024 ALL;  026 ALL;  027 ALL;  Sublette County
Pinedale FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_SW_NSO_PHMAL
WY_SW_TLS_GHMA

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

WY-184Q-319  1920.000 Acres
T.0300N, R.1090W, 06th PM, WY Sec. 028 ALL;  029 ALL;  032 ALL;  Sublette County
Pinedale FO
Formerly Lease No.

Sublette County
Pinedale FO
Formerly Lease No.

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

WY-184Q-318  2560.000 Acres

Wyoming-0000-2018-0004-EA 5-67

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

WY_SW_NSO_GHMA

TLS  (1) Nov 15 to Apr 30; (2) as mapped on the Pinedale Field Office GIS database; (3) protecting raptor nesting areas.

CSU  (1) Surface occupancy 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 Pinedale Field Office GIS database; (3) protecting raptor nesting areas.

CSU  (1) Surface occupancy (permanent facilities) within 825 feet of active raptor nests, within 1000 feet of Ferruginous hawk nests, and 2600 feet of active bald eagle nests 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 Pinedale Field Office GIS database; (3) protecting raptor nesting areas.

CSU  (1) Surface occupancy (permanent facilities) within 825 feet of active raptor nests, within 1000 feet of Ferruginous hawk nests, and 2600 feet of active bald eagle nests 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 Pinedale Field Office GIS database; (3) protecting raptor nesting areas.

CSU  (1) Surface occupancy (permanent facilities) within 825 feet of active raptor nests, within 1000 feet of Ferruginous hawk nests, and 2600 feet of active bald eagle nests 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 Pinedale Field Office GIS database; (3) protecting raptor nesting areas.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHAMAWCA
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Pinedale Field Office GIS database; (3) protecting nesting Raptors.

CSU (1) Surface occupancy (permanent facilities) within 825 feet of active raptor nests, within 1000 feet of Ferruginous hawk nests, and 2600 feet of active bald eagle nests 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 Pinedale Field Office GIS database; (3) protecting raptor nesting areas.

*DELETE IN PART (560.000 acres). The following portions of Parcel 320 are within the Ross Butte Management Area. The Management Area is unavailable for oil and gas leasing per the November 2008 Pinedale RMP pg. 2-57.

T.O300N, R.1090W, 06th PM, WY Sec. 033 N2
Sec. 034 N2W2, N2NE

Formerly Lease No.

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

WY_SW_TLS_PHAMAWCA
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Pinedale Field Office GIS database; (3) protecting raptor nesting areas.

CSU (1) Surface occupancy (permanent facilities) within 825 feet of active raptor nests, within 1000 feet of Ferruginous hawk nests, and 2600 feet of active bald eagle nests 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 Pinedale Field Office GIS database; (3) protecting raptor nesting areas.

CSU (1) Surface occupancy 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 in the Pinedale Field Office GIS database; (3) protecting 100 year floodplains of intermittent channels.

WY-184Q-322 920.000 Acres
T.O310N, R.1090W, 06th PM, WY Sec. 028 NE,N2E,SESE;
033 E2,E2NW;
034 W2SW;
035 SE;

Sublette County
Pinedale FO
Formerly Lease No.

Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHMA
WY_SW_TLS_PHAMAWCA

NSO (1) as mapped on Pinedale Field Office GIS Database; (2) protecting values within 1/4 mile of the Lander Trail.

T.O300N, R.1090W, 06th PM, WY Sec. 035 NE,S2;

Sublette County
Pinedale FO

Formerly Lease No.

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 Pinedale Field Office GIS database; (3) protecting mountain plover.

CSU (1) Surface occupancy (permanent facilities) within 825 feet of active raptor nests, within 1000 feet of Ferruginous hawk nests, and 2600 feet of active bald eagle nests 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 Pinedale Field Office GIS database; (3) protecting raptor nesting areas.

CSU (1) Surface occupancy 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 in the Pinedale Field Office GIS database; (3) protecting Class I and/or Class II Visual Resource Management Areas.
WY-184Q-323  319.290 Acres
T.0330N, R.1090W, 06th PM, WY
Sec. 009 LOTS 1-3;
027  LOTS 4;
035  LOTS 4-7;
Sublette County
Pinedale FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Special Lease Notice: This parcel is located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridor functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations on this lease parcel in accordance with Onshore Oil and Gas Order No. 1. Special Lease Notice: Lease contains sites of significant importance. Consultation with Native American Tribes is required prior to any surface disturbing activities. These consultations may increase permitting timeframes.
NSO  (1) as mapped on the Pinedale Field Office GIS database; (2) protecting
(100 year) floodplains, wetlands, and riparian areas.
NSO  (1) as mapped on the Pinedale Field Office GIS database; (2) Protecting the Green and New York Rivers Special Recreation Management Area.
NSO  (1) as mapped on the Pinedale Field Office GIS database; (2) protecting sensitive resources within the ½ mile NSO buffer area established by the Pinedale RMP.
TLS  (1) Nov 15 to Apr 30; (2) as mapped on the Pinedale Field Office GIS database; (3) protecting big game corridor designated or currently under review.
TLS  (1) Feb 1 to Jul 31; (2) as mapped on the Pinedale Field Office GIS database; (3) protecting nesting eagles.
TLS  (1) Feb 1 through Aug 15; (2) as mapped on the Pinedale Field Office GIS database or as determined by a pre-disturbance raptor survey; (3) protecting lands within 1 mile of bald eagle nests.
TLS  (1) Nov 1 to Apr 1, (2) as mapped on the Pinedale Field Office GIS database (3) protecting eagle winter use areas.
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 Pinedale Field Office GIS database or as determined by a pre-disturbance raptor survey; (3) protecting lands within 1 mile of bald eagle nests.
TLS  (1) Nov 15 to Apr 30; (2) as mapped on the Pinedale Field Office GIS database; (3) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
CSU  (1) Surface occupancy or use will be restricted unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.
TLS  (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
CSU  (1) Surface occupancy or use will be restricted unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting riparian habitats.

WY-184Q-325  640.000 Acres
T.0240N, R.1100W, 06th PM, WY
Sec. 014 NE;
015 N2;
027 SW;
Sweetwater County
Rock Springs FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_GHMAL
WY_SW_TLS_GHMAL
TLS  (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
CSU  (1) Surface occupancy or use will be restricted unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
CSU  (1) Surface occupancy or use will be restricted unless the operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting riparian habitats.

DOI-BLM-WY-0000-2018-0004-EA  5-69
Lease Notice No. 1
Stipulations:
Formerly Lease No.
Sublette County
Pinedale FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

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

TLS (1) Apr 1 to Aug 14; (2) as mapped on the Pinedale Field Office GIS database; (3) protecting nesting burrowing owls.

CSU (1) Surface occupancy (permanent facilities) within 825 feet of active raptor nests, within 1000 feet of Ferruginous hawk nests, and 2600 feet of active bald eagle nests 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 Pinedale Field Office GIS database; (3) protecting raptor nesting areas.

CSU (1) Surface occupancy (permanent facilities) within 825 feet of active raptor nests, within 1000 feet of Ferruginous hawk nests, and 2600 feet of active bald eagle nests 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 Pinedale Field Office GIS database; (3) protecting raptor nesting areas.

CSU (1) Surface occupancy (permanent facilities) within 825 feet of active raptor nests, within 1000 feet of Ferruginous hawk nests, and 2600 feet of active bald eagle nests 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 Pinedale Field Office GIS database; (3) protecting raptor nesting areas.

CSU (1) Surface occupancy (permanent facilities) within 825 feet of active raptor nests, within 1000 feet of Ferruginous hawk nests, and 2600 feet of active bald eagle nests 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 Pinedale Field Office GIS database; (3) protecting raptor nesting areas.

CSU (1) Surface occupancy (permanent facilities) within 825 feet of active raptor nests, within 1000 feet of Ferruginous hawk nests, and 2600 feet of active bald eagle nests 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 Pinedale Field Office GIS database; (3) protecting raptor nesting areas.

CSU (1) Surface occupancy (permanent facilities) within 825 feet of active raptor nests, within 1000 feet of Ferruginous hawk nests, and 2600 feet of active bald eagle nests 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 Pinedale Field Office GIS database; (3) protecting raptor nesting areas.

CSU (1) Surface occupancy (permanent facilities) within 825 feet of active raptor nests, within 1000 feet of Ferruginous hawk nests, and 2600 feet of active bald eagle nests 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 Pinedale Field Office GIS database; (3) protecting raptor nesting areas.

CSU (1) Surface occupancy (permanent facilities) within 825 feet of active raptor nests, within 1000 feet of Ferruginous hawk nests, and 2600 feet of active bald eagle nests 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 Pinedale Field Office GIS database; (3) protecting raptor nesting areas.

CSU (1) Surface occupancy (permanent facilities) within 825 feet of active raptor nests, within 1000 feet of Ferruginous hawk nests, and 2600 feet of active bald eagle nests 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 Pinedale Field Office GIS database; (3) protecting raptor nesting areas.

CSU (1) Surface occupancy (permanent facilities) within 825 feet of active raptor nests, within 1000 feet of Ferruginous hawk nests, and 2600 feet of active bald eagle nests 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 Pinedale Field Office GIS database; (3) protecting raptor nesting areas.

CSU (1) Surface occupancy (permanent facilities) within 825 feet of active raptor nests, within 1000 feet of Ferruginous hawk nests, and 2600 feet of active bald eagle nests 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 Pinedale Field Office GIS database; (3) protecting raptor nesting areas.

CSU (1) Surface occupancy (permanent facilities) within 825 feet of active raptor nests, within 1000 feet of Ferruginous hawk nests, and 2600 feet of active bald eagle nests 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 Pinedale Field Office GIS database; (3) protecting raptor nesting areas.

CSU (1) Surface occupancy (permanent facilities) within 825 feet of active raptor nests, within 1000 feet of Ferruginous hawk nests, and 2600 feet of active bald eagle nests 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 Pinedale Field Office GIS database; (3) protecting raptor nesting areas.

CSU (1) Surface occupancy (permanent facilities) within 825 feet of active raptor nests, within 1000 feet of Ferruginous hawk nests, and 2600 feet of active bald eagle nests 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 Pinedale Field Office GIS database; (3) protecting raptor nesting areas.

CSU (1) Surface occupancy (permanent facilities) within 825 feet of active raptor nests, within 1000 feet of Ferruginous hawk nests, and 2600 feet of active bald eagle nests 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 Pinedale Field Office GIS database; (3) protecting raptor nesting areas.

CSU (1) Surface occupancy (permanent facilities) within 825 feet of active raptor nests, within 1000 feet of Ferruginous hawk nests, and 2600 feet of active bald eagle nests 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 Pinedale Field Office GIS database; (3) protecting raptor nesting areas.

CSU (1) Surface occupancy (permanent facilities) within 825 feet of active raptor nests, within 1000 feet of Ferruginous hawk nests, and 2600 feet of active bald eagle nests 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 Pinedale Field Office GIS database; (3) protecting raptor nesting areas.
WY-184Q-330 960.000 Acres
T.0280N, R.1100W, 06th PM, WY
Sec. 033 W2;
034 N2,E2SW;
035 S2NW,SW;
Sublette County
Pinedale FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHMAL

WY-184Q-331 160.000 Acres
T.0290N, R.1100W, 06th PM, WY
Sec. 033 W2;
034 N2,E2SW;
035 S2NW,SW;
Sublette County
Pinedale FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHMAL

WY-184Q-332 1120.000 Acres
T.0220N, R.1130W, 06th PM, WY
Sec. 010 ALL;
015 NE,SE,SW;
Lincoln County
Kemmerer FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_GHMAL

WY-184Q-333 2459.840 Acres
T.0230N, R.1130W, 06th PM, WY
Sec. 009 ALL;
010 ALL;
014 LOTS 4;
015 LOTS 2-7,9;
016 LOTS 1-4;
016 N2,N2S2;
017 LOTS 1-4;
017 E2,E2W2;
Lincoln County
Kemmerer FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA

WY-184Q-334 2527.690 Acres
T.0230N, R.1130W, 06th PM, WY
Sec. 009 ALL;
010 ALL;
014 LOTS 4;
015 LOTS 2-7,9;
016 LOTS 1-4;
016 N2,N2S2;
017 LOTS 1-4;
017 E2,E2W2;
Lincoln County
Kemmerer FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_TLS_GHMAL
WY_SW_CSU_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_NSO_PHMAL

WY_SW_CSU_PHMA
WY_SW_NSO_PHMAL

WY_SW_TLS_PHMAWCA
WY_SW_TLS_GHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA

WY_SW_TLS_GHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA

WY_SW_TE_URL_GHMAL
WY_SW_TLS_GHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA

DOI-BLM-WY-0000-2018-0004-EA 5-71
mountain plover.

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 Kemmerer Field Office GIS database; (3) protecting Class I and/or Class II Visual Resource Management Areas.

WSW-184Q-336 1225.840 Acres T.0230N, R.1130W, 06th PM, WY Sec. 028 NWNE,NW,NWSW; 029 LOTS 1-4; 029 E2,E2W2; 032 LOTS 1-14; Lincoln County Kemmerer FO Formerly Lease No. Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 Lease Stipulation No. 4 Lease Stipulation No. 5 Lease Stipulation No. 6

WSW-184Q-337 280.000 Acres T.0130N, R.1140W, 06th PM, WY Sec. 016 SENE,SE; 017 LOTS 1-4; 018 SENE,SE; Uinta County Kemmerer FO Formerly Lease No. Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 Lease Stipulation No. 4 Lease Stipulation No. 5 Lease Stipulation No. 6

WSW-184Q-338 1560.000 Acres T.0140N, R.1140W, 06th PM, WY Sec. 012 E2SW,SE; 015 E2; 022 NE; 025 NWNE,W2; 036 N2,SE; Uinta County Kemmerer FO Formerly Lease No. Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 Lease Stipulation No. 4 Lease Stipulation No. 5 Lease Stipulation No. 6

WSW-184Q-339 1961.900 Acres T.0150N, R.1140W, 06th PM, WY Sec. 014 LOTS 1-4; 002 S2N2,S2; 004 LOTS 1-4; 004 S2N2,S2; 006 LOTS 1-7; 006 S2NE,SENW,E2SW,SE; Uinta County Kemmerer FO Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
NSO (1) as mapped on the Kemmerer Field Office GIS database; (2) protecting cultural and scenic values of the Oregon/California National Historic Trail within ¼ mile on each side of Class I trail segments and within ¼ mile radius of gravesites and landmarks. TLS (1) Nov 15 to Apr 30; (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting big game crucial winter range.
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 Kemmerer Field Office GIS database; (3) protecting Class I and/or Class II Visual Resource Management Areas.
CSU (1) Surface occupancy or use within the federal section in which the Class I trail occurs 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 Kemmerer Field Office GIS database; (3) protecting cultural and scenic values of the Oregon/California National Historic Trail.

WY-184Q-341 1229.610 Acres
T.0180N, R.1140W, 06th PM, WY Sec. 014 N2S2; 014 ROW UNDER ACT OF 3/3/1875;
020 N2NE,N2NW,N2SW,S2SE; 020 ACT OF 3/3/1875;
Uinta County Kemmerer FO
Formerly Lease No. Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL

WY-184Q-342 1920.000 Acres
T.0180N, R.1140W, 06th PM, WY Sec. 022 ALL; 024 ALL; 034 ALL;
Uinta County Kemmerer FO
Formerly Lease No. Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
NSO (1) as mapped on the Kemmerer Field Office GIS database; (2) protecting cultural and scenic values of the Oregon/California National Historic Trail within ¼ mile on each side of Class I trail segments and within ¼ mile radius of gravesites and landmarks. TLS (1) Nov 15 to Apr 30; (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting big game crucial winter range.
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 Kemmerer Field Office GIS database; (3) protecting Class I and/or Class II Visual Resource Management Areas.
CSU (1) Surface occupancy or use within the federal section in which the Class I trail occurs 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 Kemmerer Field Office GIS database; (3) protecting cultural and scenic values of the Oregon/California National Historic Trail.

WY-184Q-343 1921.270 Acres
T.0190N, R.1140W, 06th PM, WY Sec. 002 LOTS 1-4; 002 S2N2; 010 ALL; 012 ALL;
Lincoln County Kemmerer FO
Formerly Lease No. Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
NSO (1) as mapped on the Kemmerer Field Office GIS database; (2) protecting cultural and scenic values of the Oregon/California National Historic Trail within ¼ mile on each side of Class I trail segments and within ¼ mile radius of gravesites and landmarks. TLS (1) Nov 15 to Apr 30; (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting big game crucial winter range.
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 Kemmerer Field Office GIS database; (3) protecting Class I and/or Class II Visual Resource Management Areas.
CSU (1) Surface occupancy or use within the federal section in which the Class I trail occurs 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 Kemmerer Field Office GIS database; (3) protecting cultural and scenic values of the Oregon/California National Historic Trail.

WY-184Q-344 1286.780 Acres
T.0190N, R.1140W, 06th PM, WY Sec. 008 ALL;
018LOTS 1-4; 018 E2,E2W2;
Lincoln County Kemmerer FO
Formerly Lease No. Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAWCA
WY_SW_TLS_PHMAL
WY_SW_CSU_PHMA
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting nesting Raptors.
TLS (1) Apr 10 to Jul 10 (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting big game crucial winter range.
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSR_PHMA
TLS (1) Apr 10 to Jul 10 (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting nesting mountain plover.

WY-184Q-345 2560.000 Acres
T.0190N, R.1140W, 06th PM, WY
Sec. 014 ALL;
020 ALL;
022 ALL;
024 ALL;
Lincoln County
Kemmerer FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_TLS_PHMAL
WY_TLS_PHMAWCA
WY_CSR_PHMA

WY-184Q-346 1928.640 Acres
T.0190N, R.1140W, 06th PM, WY
Sec. 026 ALL;
028 ALL;
030 LOTS 1-4;
030 E2,E2W2;
Lincoln County
Kemmerer FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_TLS_GHMAL
WY_TLS_PHMAL
WY_TLS_PHMAWCA
WY_CSR_PHMA

WY-184Q-347 1280.000 Acres
T.0190N, R.1140W, 06th PM, WY
Sec. 032 ALL;
034 ALL;
Lincoln County
Kemmerer FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_TLS_PHMAL
WY_TLS_PHMAWCA
WY_CSR_PHMA

WY-184Q-348 1720.000 Acres
T.0200N, R.1140W, 06th PM, WY
Sec. 024 ALL;
026 ALL;
030 LOTS 1-4;
030 E2,E2W2;
032 ALL;
Lincoln County
Kemmerer FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_TLS_PHMAL
WY_TLS_PHMAWCA
WY_CSR_PHMA

WY-184Q-349 1726.900 Acres
T.0200N, R.1140W, 06th PM, WY
Sec. 030 LOTS 1-4;
030 E2,E2W2;
032 ALL;
Lincoln County
Kemmerer FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_TLS_PHMAL
WY_TLS_PHMAWCA
WY_CSR_PHMA

WY-184Q-350 1663.260 Acres
T.0210N, R.1140W, 06th PM, WY
Sec. 001 LOTS 1-4;
026 LOTS 1-4,9;
026 LOT 5 (EXCL .85 AC IN RR)
026 ROW WYW0294446;
026 LOT 6 (EXCL 5.32 AC IN RR)
026 ROW WYW0294446;
026 LOT 7 (EXCL .85 AC IN RR)
026 ROW UNDER ACT OF
026 3/3/1875);
026 LOT 8 (EXCL 5.01 AC IN
026 UNDER ACT OF
026 3/3/1875);
026 LOTS 1-5;
028 N2NE,NENW;
028 LOTS 6,7 (EXCL 8.29 AC
028 IN RR ROW UNDER
028 3/3/1875);
028 LOTS 1-6;
034 LOTS 1-6;
034 E2SW,SE;
Lincoln County
Kemmerer FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHMA
WY_SW_TLS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting big game crucial winter range.

WY-184Q-351 1819.400 Acres
T.0220N, R.1140W, 06th PM, WY
Sec. 001 LOTS 1-4;
001 SENE,S2NW,N2SW;
002 LOTS 1-4;
002 S2NW,S2;
003 LOTS 1-4;
003 S2NW,S2;
004 SE;
Lincoln County
Kemmerer FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHMA
WY_SW_TLS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting big game crucial winter range.

WY-184Q-353 2356.770 Acres
T.0220N, R.1140W, 06th PM, WY
Sec. 003 LOTS 1-4;
003 S2N2,S2;
004 LOTS 1-4;
005 S2N2,S2;
006 LOTS 1-4;
006 S2NE,SENW,SESW,SE;
007 LOTS 3,4;
007 E2,SENW,E2SW;
008 NE,W2NW,SENW,S2;
Lincoln County
Kemmerer FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY-184Q-355 2227.390 Acres
T.0230N, R.1140W, 06th PM, WY
Sec. 004 LOTS 1-4;
004 S2N2,S2;
005 LOTS 1-4;
005 S2NE,SWNW,W2SW,SESW,SE;
006 LOTS 1-7;
006 S2NE,SENW,E2SW,SE;
007 LOTS 1,2;
007 NE,E2NW;
Lincoln County
Kemmerer FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHMA
WY_SW_TLS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
NSO (1) as mapped on the Kemmerer Field Office GIS database; (2) protecting representative cushion plant communities.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting big game crucial winter range.

WY-184Q-354 1945.280 Acres
T.0230N, R.1140W, 06th PM, WY
Sec. 006 LOTS 1-7;
006 S2NE,SWNW,W2SW,SESW,SE;
006 S2NE,SWNW,SESW,SE;
006 S2NE,SENSW,4SW;
007 LOTS 3,4;
007 E2,SENW,E2SW;
008 NE,W2NW,SENW,S2;
Lincoln County
Kemmerer FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHMA
WY_SW_TLS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting big game crucial winter range.

 Lincoln County
 Kemmerer FO
 Formerly Lease No.
 Stipulations:
 Lease Notice No. 1
 Lease Notice No. 2
 Lease Notice No. 3
 Lease Stipulation No. 1
 Lease Stipulation No. 2
 Lease Stipulation No. 3
 WY_SW_TLS_GHMA
 WY_SW_TLS_PHMA
 WY_SW_TLS_PHMAWCA
 WY_SW_CSU_PHMA
 TLS (1) Nov 15 to Apr 30; (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting big game crucial winter range.

 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 Kemmerer Field Office GIS database; (3) protecting Class I and/or Class II Visual Resource Management Areas.

 DOI-BLM-WY-0000-2018-0004-EA 5-75
operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting Class I and/or Class II Visual Resource Management Areas.

Lease Stipulation No. 3
Lease Stipulation No. 2
Lease Notice No. 3
Lease Notice No. 2
Lease Notice No. 1
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
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 Kemmerer Field Office GIS database; (3) protecting big game crucial winter range.

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 Kemmerer Field Office GIS database; (3) protecting Class I and/or Class II Visual Resource Management Areas.

WY-184Q-357 2560,000 Acres
T.0230N, R.1140W, 06th PM, WY
Sec. 008 ALL; 009 ALL; 010 ALL; 011 ALL; Lincoln County
Kemmerer FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
NSO (1) as mapped on the Kemmerer Field Office GIS database; (2) protecting big game crucial winter range.

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 Kemmerer Field Office GIS database; (3) protecting Class I and/or Class II Visual Resource Management Areas.

WY-184Q-358 2560,000 Acres
T.0230N, R.1140W, 06th PM, WY
Sec. 012 ALL; 013 ALL; 014 ALL; 015 ALL; Lincoln County
Kemmerer FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
NSO (1) as mapped on the Kemmerer Field Office GIS database; (2) protecting big game crucial winter range.

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 Kemmerer Field Office GIS database; (3) protecting Class I and/or Class II Visual Resource Management Areas.

DOI-BLM-WY-0000-2018-0004-EA  5-76
operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting Class I and/or Class II Visual Resource Management Areas.

WY-184Q-360 2560.000 Acres
T.0230N, R.1140W, 06th PM, WY
Sec. 023 ALL;
024 N2,N2SW,SWSW,NWSE;
025 ALL;
026 ALL;
027 E2E2;
Lincoln County
Kemmerer FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
TLS (1) Apr 10 to Jul 10; (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting nesting mountain plover.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting big game crucial winter range.

WY-184Q-362 2560.000 Acres
T.0230N, R.1140W, 06th PM, WY
Sec. 032 ALL;
033 ALL;
034 ALL;
035 ALL;
Lincoln County
Kemmerer FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting nesting mountain plover.
TLS (1) Feb 1 to Aug 15; (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting nesting Raptors.

WY-184Q-363 1928.960 Acres
T.0180N, R.1150W, 06th PM, WY
Sec. 004 S2N2,S2;
006 S2N2,S2;
008 ALL;
010 ALL;
Uinta County
Kemmerer FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
NSO (1) as mapped on the Kemmerer Field Office GIS database; (2) protecting cultural and scenic values of the Oregon/California National Historic Trail within ¼ mile on each side of Class I trail segments and within ½ mile radius of gravesites and landmarks.
TLS (1) Apr 10 to Jul 10 (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting nesting mountain plover.
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 Kemmerer Field Office GIS database; (3) protecting cultural and scenic values of the Oregon/California National Historic Trail.
operator and surface managing agency arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting Class I and/or Class II Visual Resource Management Areas.

CSU
(1) Surface occupancy or use within the federal section in which the Class I trail occurs 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 Kemmerer Field Office GIS database; (3) protecting cultural and scenic values of the Oregon/California National Historic Trail.

WY-184Q-369 1924.850 Acres
T.0190N, R.1150W, 06th PM, WY Sec. 008 LOTS 1-4;
006 S2N2,52; 006 S2NE,SENW,E2SW,SE; 008 ALL; Lincoln County Kemmerer FO Formerly Lease No. Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 WY_sw_NSO_PHAL WY_sw_TLS_PHAL WY_sw_TLS_PHMAWCA WY_sw_CSU_PHMA TLS (1) Apr 10 to Jul 10; (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting nesting mountain plover.

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

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

TLS (1) Feb 1 to Aug 15; (2) as mapped in the Kemmerer Field Office GIS database; (3) protecting nesting burrowing owls.

TLS (1) Apr 10 to Jul 10; (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting nesting mountain plover.

WY-184Q-370 1920.000 Acres
T.0190N, R.1150W, 06th PM, WY Sec. 018 LOTS 1-4;
018 E2,E2W2; 020 ALL; 022 ALL; Lincoln County Kemmerer FO Formerly Lease No. Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 WY_sw_NSO_PHAL WY_sw_TLS_PHAL WY_sw_TLS_PHMAWCA WY_sw_CSU_PHMA TLS (1) Apr 10 to Jul 10; (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting nesting mountain plover.
| Lease Stipulation No. | Acres         | Section | Township | Range | WM   | | Description                                                                 |
|----------------------|--------------|---------|-----------|-------|------| |                                                                           |
| 026                  | ALL          | 034     | ALL       |       |      | |                                                                           |
| Lincoln County       |              | Kemmerer FO | Formerly Lease No. |
| Stipulations:        |              |         |           |       |      | |                                                                           |
| Lease Notice No. 1   |              |         |           |       |      | |                                                                           |
| Lease Notice No. 2   |              |         |           |       |      | |                                                                           |
| Lease Notice No. 3   |              |         |           |       |      | |                                                                           |
| Lease Stipulation No.1 |            |         |           |       |      | |                                                                           |
| Lease Stipulation No.2 |            |         |           |       |      | |                                                                           |
| Lease Stipulation No.3 |            |         |           |       |      | |                                                                           |
| WY_SW_TLS_PHMAL      |              |         |           |       |      | |                                                                           |
| WY_SW_TLS_PHMAWCA    |              |         |           |       |      | |                                                                           |
| WY_SW_CSRU_PHMA      |              |         |           |       |      | |                                                                           |
| TLS (1) Feb 1 to Jul 31; (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting nesting mountain plover. |
| WY-184Q-374          | 1927.460 Acres| Sec. 012 | ALL       |       |      | |                                                                           |
|                       |              | 014     | ALL       |       |      | |                                                                           |
|                       |              | 018     | LOTS 1-4; |       |      | |                                                                           |
|                       |              | 018     | E2,E2W2;  |       |      | |                                                                           |
| Lincoln County       |              | Kemmerer FO | Formerly Lease No. |
| Stipulations:        |              |         |           |       |      | |                                                                           |
| Lease Notice No. 1   |              |         |           |       |      | |                                                                           |
| Lease Notice No. 2   |              |         |           |       |      | |                                                                           |
| Lease Notice No. 3   |              |         |           |       |      | |                                                                           |
| Lease Stipulation No.1 |            |         |           |       |      | |                                                                           |
| Lease Stipulation No.2 |            |         |           |       |      | |                                                                           |
| Lease Stipulation No.3 |            |         |           |       |      | |                                                                           |
| WY-184Q-375          | 1923.260 Acres| Sec. 026 | ALL       |       |      | |                                                                           |
|                       |              | 026     | ALL       |       |      | |                                                                           |
|                       |              | 026     | ALL       |       |      | |                                                                           |
|                       |              | 026     | ALL       |       |      | |                                                                           |
| Lincoln County       |              | Kemmerer FO | Formerly Lease No. |
| Stipulations:        |              |         |           |       |      | |                                                                           |
| Lease Notice No. 1   |              |         |           |       |      | |                                                                           |
| Lease Notice No. 2   |              |         |           |       |      | |                                                                           |
| Lease Notice No. 3   |              |         |           |       |      | |                                                                           |
| Lease Stipulation No.1 |            |         |           |       |      | |                                                                           |
| Lease Stipulation No.2 |            |         |           |       |      | |                                                                           |
| Lease Stipulation No.3 |            |         |           |       |      | |                                                                           |
| WY-184Q-376          | 640.000 Acres | Sec. 023 | N2NW,SWNW;|       |      | |                                                                           |
|                       |              | 035     | NWNE,N2NW;|       |      | |                                                                           |

**WY-184Q-372** 1921.190 Acres T.0190N, R.1150W, 06th PM, WY Sec. 028 ALL; 030 LOTS 1-4; 030 E2,E2W2; 032 ALL; Lincoln County Kemmerer FO Formerly Lease Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 WY_SW_TLS_PHMAL WY_SW_TLS_PHMAWCA WY_SW_CSRU_PHMA TLS (1) Feb 1 to Jul 31; (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting nesting mountain plover. **WY-184Q-373** 2163.520 Acres T.0200N, R.1150W, 06th PM, WY Sec. 020 ALL; 020 LOTS 1-4; 020 E2,E2W2; 020 ALL; Lincoln County Kemmerer FO Formerly Lease Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 WY_SW_TLS_PHMAL WY_SW_TLS_PHMAWCA WY_SW_CSRU_PHMA TLS (1) Feb 1 to Jul 31; (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting nesting mountain plover. **WY-184Q-374** 2560.000 Acres T.0200N, R.1150W, 06th PM, WY Sec. 020 ALL; 020 LOTS 1-4; 020 E2,E2W2; 020 ALL; Lincoln County Kemmerer FO Formerly Lease Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 WY_SW_TLS_PHMAL WY_SW_TLS_PHMAWCA WY_SW_CSRU_PHMA TLS (1) Feb 1 to Jul 31; (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting nesting mountain plover. **WY-184Q-377** 640.000 Acres T.0230N, R.1150W, 06th PM, WY Sec. 026 S2N2; 035 NWNE,N2NW,SWNW; Lincoln County Kemmerer FO Formerly Lease Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 WY_SW_TLS_PHMAL WY_SW_TLS_PHMAWCA WY_SW_CSRU_PHMA TLS (1) Feb 1 to Jul 31; (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting nesting mountain plover. **WY-184Q-378** 640.000 Acres T.0230N, R.1150W, 06th PM, WY Sec. 026 S2N2; 035 NWNE,N2NW,SWNW; Lincoln County Kemmerer FO Formerly Lease Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 WY_SW_TLS_PHMAL
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

Kemmerer Field Office at (307) 828-4300. For more information, please contact a Petroleum Engineer at the Kemmerer Field Office at (307) 828-4500.

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

WY-184Q-379 2093.110 Acres T.0180N, R.1160W, 06th PM, WY Sec. 002 LOTS 1-4; 002 N2NE,W2,SWSE; 004 LOTS 1-6; 006 N2,SWSE; 008 ALL; Uinta County
Kemmerer FO
Formerly Lease No.
Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3

WY-184Q-380 2560.000 Acres T.0180N, R.1160W, 06th PM, WY Sec. 010 ALL; 012 ALL; 014 ALL; 022 ALL; Uinta County
Kemmerer FO
Formerly Lease No.
Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3

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 Kemmerer Field Office GIS database; (3) protecting brooding ground ducks and/or Class II Visual Resource Management Areas.

CSU (1) Surface occupancy or use will be restricted or prohibited unless the operator and surface managing agency arrive at an acceptable plan for (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 Kemmerer Field Office GIS database; (3) protecting brooding ground ducks and/or Class II Visual Resource Management Areas.

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 Kemmerer Field Office GIS database; (3) protecting brooding ground ducks and/or Class II Visual Resource Management Areas.

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 Kemmerer Field Office GIS database; (3) protecting brooding ground ducks and/or Class II Visual Resource Management Areas.

CSU (1) Surface occupancy or use will be restricted or prohibited unless the operator and surface managing agency arrive at an acceptable plan for (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 Kemmerer Field Office GIS database; (3) protecting brooding ground ducks and/or Class II Visual Resource Management Areas.
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting nesting Raptors.

TLS (1) Feb 1 to Aug 15; (2) as mapped in the Kemmerer Field Office GIS database; (3) protecting nesting burrowing owls.

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

WY-184Q-382  1280.000 Acres
T.0180N, R.1160W, 06th PM, WY
Sec. 020  ALL;
024  ALL;
Uinta County
Kemmerer FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
NSO (1) as mapped on the Kemmerer Field Office GIS database; (2) protecting cultural and scenic values of the Oregon/California National Historic Trail within ¼ mile on each side of Class 1 trail segments and within ¼ mile radius of gravesites and landmarks.
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 Kemmerer Field Office GIS database; (3) protecting Class I and/or Class II Visual Resource Management Areas.

WY-184Q-384  1255.760 Acres
T.0180N, R.1160W, 06th PM, WY
Sec. 032  ALL;
034  N2S2;
034  N2S2; EXCL 24.24 AC IN RR ROW UNDER ACT OF 3/3/1875;
Uinta County
Kemmerer FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
Lease Stipulation No. 3
Traffic (1) Feb 1 to Jul 31; (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting nesting Raptors.

TLS (1) Apr 10 to Jul 10; (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting nesting mountain plover.

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

WY-184Q-386  2240.000 Acres
T.0190N, R.1160W, 06th PM, WY
Sec. 008
010  ALL;
012  ALL;
014  ALL;
Lincoln County
Kemmerer FO
Formerly Lease No.
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_CSR_PHMA
WY_SW_TLS_PHMA
WY_SW_TLS_PHMAL
Lease Stipulation No. 3
Traffic (1) Feb 1 to Jul 31; (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting nesting Raptors.

TLS (1) Nov 15 to Apr 30; (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting big game crucial winter range.
<table>
<thead>
<tr>
<th>Parcel</th>
<th>Acres</th>
<th>Location</th>
<th>Dates</th>
<th>Other Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>WY-184Q-388</td>
<td>1840.000 Acres</td>
<td>T.0190N, R.1160W, 06th PM, WY</td>
<td>Sec. 028 ALL; 032 N2,E2SW,SE; 034 ALL;</td>
<td>- Site of significant cultural importance. Consultation with BLM and Native American Tribes will be required for any surface disturbing activities.</td>
</tr>
<tr>
<td>Stipulations:</td>
<td>Lease Notice No. 1</td>
<td>Lease Notice No. 2</td>
<td>Lease Notice No. 3</td>
<td>Lease Stipulation No. 1</td>
</tr>
<tr>
<td>-------------</td>
<td>-------------------</td>
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<td>-------------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>WY-184Q-396</td>
<td>200 Acres</td>
<td>T.0340N, R.0640W, 06th PM, WY</td>
<td>Sec. 008 NWNE,E2W2;</td>
<td>Niobrara County</td>
</tr>
<tr>
<td>WY-184Q-397</td>
<td>160 Acres</td>
<td>T.0350N, R.0640W, 06th PM, WY</td>
<td>Sec. 014 NW;</td>
<td>Niobrara County</td>
</tr>
<tr>
<td>WY-184Q-398</td>
<td>400 Acres</td>
<td>T.0350N, R.0640W, 06th PM, WY</td>
<td>Sec. 023 SE;</td>
<td>N2S;</td>
</tr>
<tr>
<td>WY-184Q-399</td>
<td>1280 Acres</td>
<td>T.0360N, R.0640W, 06th PM, WY</td>
<td>Sec. 008 ALL;</td>
<td>017 ALL;</td>
</tr>
</tbody>
</table>

**Stipulations:**

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

**DOI-BLM-WY-0000-2018-0004-EA 5-83**
<p>| Lease Notice No. 1 | Lease Notice No. 2 | Lease Notice No. 3 | Lease Stipulation No. 1 | Lease Stipulation No. 2 | Lease Stipulation No. 3 | Lease Notice No. 1 | Lease Notice No. 2 | Lease Notice No. 3 | Lease Stipulation No. 1 | Lease Stipulation No. 2 | Lease Stipulation No. 3 | Lease Notice No. 1 | Lease Notice No. 2 | Lease Notice No. 3 | Lease Stipulation No. 1 | Lease Stipulation No. 2 | Lease Stipulation No. 3 | Lease Notice No. 1 | Lease Notice No. 2 | Lease Notice No. 3 | Lease Stipulation No. 1 | Lease Stipulation No. 2 | Lease Stipulation No. 3 | Lease Notice No. 1 | Lease Notice No. 2 | Lease Notice No. 3 | Lease Stipulation No. 1 | Lease Stipulation No. 2 | Lease Stipulation No. 3 | Lease Notice No. 1 | Lease Notice No. 2 | Lease Notice No. 3 | Lease Stipulation No. 1 | Lease Stipulation No. 2 | Lease Stipulation No. 3 | Lease Notice No. 1 | Lease Notice No. 2 | Lease Notice No. 3 | Lease Stipulation No. 1 | Lease Stipulation No. 2 | Lease Stipulation No. 3 |
|-------------------|-------------------|-------------------|------------------------|------------------------|------------------------|-------------------|-------------------|-------------------|------------------------|------------------------|------------------------|-------------------|-------------------|-------------------|------------------------|------------------------|------------------------|-------------------|-------------------|-------------------|------------------------|------------------------|------------------------|-------------------|-------------------|-------------------|------------------------|------------------------|------------------------|-------------------|-------------------|-------------------|------------------------|------------------------|------------------------|
| WY-184Q-401 80 Acres T.0410N, R.0650W, 06th PM, WY Sec. 026 S2SW; Niobrara County Newcastle FO Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 WY_SW_TLS_PHMAL WY_SW_TLS_PHMAWCA WY_SW_CSU_PHMA TLS (1) Feb 1 to Jul 31; (2) as mapped on the Newcastle Field Office GIS database; (3) protecting nesting raptors. | WY-184Q-402 1199.04 Acres T.0390N, R.0660W, 06th PM, WY Sec. 001 S2N2,N2SE; T.0400N, R.0660W, 06th PM, WY Sec. 008 W2NE,W2,N2SE; 010 NE,E2W2; Niobrara County Newcastle FO Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 WY_SW_TLS_PHMAL WY_SW_TLS_PHMAWCA WY_SW_CSU_PHMA TLS (1) Feb 1 to Jul 31; (2) as mapped on the Newcastle Field Office GIS database; (3) protecting nesting raptors. | WY-184Q-403 400 Acres T.0390N, R.0660W, 06th PM, WY Sec. 001 N2SW; | WY-184Q-404 80 Acres T.0390N, R.0660W, 06th PM, WY Sec. 024 S2NE; Niobrara County Newcastle FO Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 WY_SW_TLS_PHMAL WY_SW_TLS_PHMAWCA WY_SW_CSU_PHMA TLS (1) Feb 1 to Jul 31; (2) as mapped on the Newcastle Field Office GIS database; (3) protecting nesting raptors. | WY-184Q-405 80 Acres T.0390N, R.0660W, 06th PM, WY Sec. 034 N2NE; Niobrara County Worland FO Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 WY_SW_TLS_PHMAL WY_SW_TLS_PHMAWCA WY_SW_CSU_PHMA TLS (1) Feb 1 to Jul 31; (2) as mapped on the Newcastle Field Office GIS database; (3) protecting nesting raptors. | WY-184Q-406 920 Acres T.0400N, R.0660W, 06th PM, WY Sec. 008 E2NE,S2SE; 010 W2W2; T.0410N, R.0660W, 06th PM, WY Sec. 026 SW; 034 NE,N2SE,SWSE; Weston County Newcastle FO Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 WY_SW_TLS_PHMAL WY_SW_TLS_PHMAWCA WY_SW_CSU_PHMA TLS (1) Feb 1 to Jul 31; (2) as mapped on the Newcastle Field Office GIS database; (3) protecting nesting raptors. | WY-184Q-407 800 Acres T.0400N, R.0660W, 06th PM, WY Sec. 012 ALL; 013 NW; Niobrara County Newcastle FO Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 WY_SW_NSO_PHMAL WY_SW_TLS_PHMAL WY_SW_TLS_PHMAWCA WY_SW_CSU_PHMA Defer portion of parcel pending completion of ongoing Native American consultation on Traditional Cultural Properties | WY-184Q-408 40 Acres T.0410N, R.0660W, 06th PM, WY Sec. 034 SESE; Niobrara County Newcastle FO Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 WY_SW_TLS_PHMAL WY_SW_TLS_PHMAWCA WY_SW_CSU_PHMA | WY-184Q-409 400 Acres T.0420N, R.0660W, 06th PM, WY Sec. 010 N2W2SW; Weston County Newcastle FO Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 WY_SW_TLS_PHMAL WY_SW_TLS_PHMAWCA WY_SW_CSU_PHMA |</p>
<table>
<thead>
<tr>
<th>Lease Notice No. 1</th>
<th>Lease Notice No. 2</th>
<th>Lease Notice No. 3</th>
<th>Lease Stipulation No. 1</th>
<th>Lease Stipulation No. 2</th>
<th>Lease Stipulation No. 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>WY_SW_TLS_PHMAL</td>
<td>WY_SW_TLS_PHMAWCA</td>
<td>WY_SW_CSU_PHMA</td>
<td>WY_SW_TLS_PHMAL</td>
<td>WY_SW_TLS_PHMAWCA</td>
<td>WY_SW_CSU_PHMA</td>
</tr>
</tbody>
</table>

**WY-184Q-410** 320 Acres  
T.0510N, R.0670W, 06th PM, WY  
Sec. 017 T2SE;  
020 NE,W2SE;  
Crook County  
Newcastle FO  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  

**WY-184Q-411** 400 Acres  
T.0530N, R.0670W, 06th PM, WY  
Sec. 020 S2SE;  
029 W2NE,NW;  
Crook County  
Newcastle FO  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  

**WY-184Q-412** 200 Acres  
T.0550N, R.0670W, 06th PM, WY  
Sec. 020 W2W2;  
029 NNNW;  
Crook County  
Newcastle FO  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  

**WY-184Q-413** 242.99 Acres  
T.0430N, R.0680W, 06th PM, WY  
Sec. 009 LOTS 9,10;  
011 LOTS 10-13;  
Weston County  
Newcastle FO  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  

**WY-184Q-414** 560 Acres  
T.0440N, R.0680W, 06th PM, WY  
Sec. 026 SW,W2SE;  
028 W2W2,E2SW,W2SE;  
Weston County  
Newcastle FO  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  

**WY-184Q-415** 836.46 Acres  
T.0460N, R.0680W, 06th PM, WY  
Sec. 026 SW,W2SE;  
028 W2W2,E2SW,W2SE;  
Weston County  
Newcastle FO  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  

**WY-184Q-416** 2160 Acres  
T.0460N, R.0680W, 06th PM, WY  
Sec. 010 NE;  
013 N2NE,E2W2,NWSW,SWSE;  
021 N2S2,S2SW,SWSE;  
022 S2;  
Lease Notice No. 1  
023 W2E2,E2NW,W2SW;  
024 NWNE,W2NW,NWSW,E2SE;  
025 E2NE,E2SW,SE;  
026 NENW,W2W2;  
Weston County  
Newcastle FO  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  

**WY-184Q-417** 2481.4 Acres  
T.0460N, R.0680W, 06th PM, WY  
Sec. 028 N2NE,S2E,W2;  
029 NW;  
030 LOTS 1-4;  
030 W2NE,E2W2,SE;  
031 E2,E2SW;  
032 W2W2;  
033 N2NE,W2;  
034 SENE,W2NW,E2SW,SE;  
Weston County  
Newcastle FO  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  

**WY-184Q-418** 257.83 Acres  
T.0562N, R.0680W, 06th PM, WY  
Sec. 031 LOTS 1-6;  
032 LOTS 1-6;  
Crook County  
Newcastle FO  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  

**WY-184Q-419** 1268.69 Acres  
T.0570N, R.0680W, 06th PM, WY  
Sec. 028 LOTS 8-9;  
029 LOTS 1,2;  
032 LOTS 1-4;  
032 E2SE;  
033 LOTS 1,2;  
033 S2NE,W2SE;  
034 LOTS 1,3,6;  
034 SNNW,SW,SWSE;  
Crook County  
Newcastle FO  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3
 Lease Stipulation No. 1
 Lease Stipulation No. 2
 Lease Stipulation No. 3
 WY_NFO_CSU_PHMAC
 WY_NFO_TLS_PHMAC

 WY-184Q-420  121.23 Acres
 T.0440N, R.0690W, 06th PM, WY
 Sec. 024  LOTS 1,4,5;
 Campbell County
 Buffalo FO
 Stipulations:
 Lease Notice No. 1
 Lease Notice No. 2
 Lease Notice No. 3
 Lease Stipulation No. 1
 Lease Stipulation No. 2
 Lease Stipulation No. 3
 WY_BFO_TLS_PHMAC
 WY_SW_TLS_PHMAC

 WY-184Q-421  330.66 Acres
 T.0450N, R.0690W, 06th PM, WY
 Sec. 017  LOTS 1,8;
 020  LOTS 3,6;
 023  LOTS 3-6;
 Campbell County
 Buffalo FO
 Stipulations:
 Lease Notice No. 1
 Lease Notice No. 2
 Lease Notice No. 3
 Lease Stipulation No. 1
 Lease Stipulation No. 2
 Lease Stipulation No. 3
 WY_BFO_TLS_PHMAC
 WY_SW_TLS_PHMAC

 WY-184Q-422  724.08 Acres
 T.0460N, R.0690W, 06th PM, WY
 Sec. 022  LOTS 1-4,6-11,14-16;
 031  LOTS 12;
 032  LOTS 3-6;
 Campbell County
 Buffalo FO
 Stipulations:
 Lease Notice No. 1

 WY-184Q-423  40.51 Acres
 T.0410N, R.0700W, 06th PM, WY
 Sec. 030  LOTS 5;
 Campbell County
 Buffalo FO
 Stipulations:
 Lease Notice No. 1
 Lease Notice No. 2
 Lease Notice No. 3
 Lease Stipulation No. 1
 Lease Stipulation No. 2
 Lease Stipulation No. 3
 WY_BFO_CSU_CLBA
 WY_BFO_CSU_FQM
 WY_BFO_CSU_SLR

 WY-184Q-424  1416.61 Acres
 T.0470N, R.0700W, 06th PM, WY
 Sec. 005  LOTS 7;
 011  LOTS 3-16;
 013  LOTS 4,5,8,9,12-14,16;
 014  LOTS 1-10,15,16;
 Campbell County
 Buffalo FO
 Stipulations:
 Lease Notice No. 1
 Lease Notice No. 2
 Lease Notice No. 3
 Lease Stipulation No. 1
 Lease Stipulation No. 2
 Lease Stipulation No. 3
 WY_SW_TLS_GHMAL
 WY_BFO_CSU_SLR

 WY-184Q-425  1240.27 Acres
 T.0470N, R.0700W, 06th PM, WY
 Sec. 015  LOTS 7;
 022  LOTS 1,2,7-9,12;
 023  LOTS 1-7;
 023  SWNE;
 024  LOTS 1-15;
 024  SENW;
 Campbell County
 Buffalo FO
 Stipulations:
 Lease Notice No. 1
 Lease Notice No. 2
 Lease Notice No. 3
 Lease Stipulation No. 1
 Lease Stipulation No. 2
 Lease Stipulation No. 3
 WY_BFO_NSO_Slopes50
 WY_BFO_CSU_H20500F
 WY_BFO_CSU_PD

 WY-184Q-426  1994.66 Acres
 T.0490N, R.0700W, 06th PM, WY
 Sec. 019  LOTS 10-14,19,20;
 020  LOTS 1,2,5-16;
 021  LOTS 1,8,9,16;
 022  LOTS 3,6-11-14;
 028  LOTS 5,7,10-15;
 029  LOTS 7,8;
 031  LOTS 19;
 032  LOTS 1,3,4,9,10;
 Campbell County
 Buffalo FO
 Stipulations:
 Lease Notice No. 1
 Lease Notice No. 2
 Lease Notice No. 3
 Lease Stipulation No. 1
 Lease Stipulation No. 2
 Lease Stipulation No. 3
 WY_SW_NSO_GHMAL
 WY_SW_TLS_GHMAL
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

Special Lease Notice: There is a single (or multiple) unplugged wellbore(s) and/or other facilities located on this parcel. For more information, please contact a Petroleum Engineer at the Buffalo Field Office at (307) 684-1100.

CSU (1) Surface occupancy or use within 3 miles or visual horizon of the historic trail, whichever is closer, 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 cultural and scenic values of the Oregon Trail.

CSU (1) Surface occupancy or use within 3 miles or visual horizon of the historic trail, whichever is closer, 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 cultural and scenic values of the Bozeman Trail.

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

CSU (1) Surface occupancy or use within 3 miles or visual horizon of the historic trail, whichever is closer, 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 cultural and scenic values of the Bozeman Trail.

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

CSU (1) Surface occupancy or use within 3 miles or visual horizon of the historic trail, whichever is closer, 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 cultural and scenic values of the Bozeman Trail.

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

CSU (1) Surface occupancy or use within 3 miles or visual horizon of the historic trail, whichever is closer, 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 cultural and scenic values of the Bozeman Trail.

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

CSU (1) Surface occupancy or use within 3 miles or visual horizon of the historic trail, whichever is closer, 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 cultural and scenic values of the Bozeman Trail.

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

CSU (1) Surface occupancy or use within 3 miles or visual horizon of the historic trail, whichever is closer, 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 cultural and scenic values of the Bozeman Trail.

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

CSU (1) Surface occupancy or use within 3 miles or visual horizon of the historic trail, whichever is closer, 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 cultural and scenic values of the Bozeman Trail.

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

CSU (1) Surface occupancy or use within 3 miles or visual horizon of the historic trail, whichever is closer, 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 cultural and scenic values of the Bozeman Trail.

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

CSU (1) Surface occupancy or use within 3 miles or visual horizon of the historic trail, whichever is closer, 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 cultural and scenic values of the Bozeman Trail.
WY-184Q-433 123.34 Acres
T.0440N, R.0730W, 06th PM, WY
Sec. 032 LOTS 3,6; 033 LOTS 1;
Campbell County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHMAL
WY_BFO_NSO_SSRN
WY_BFO_TLS_NSSRN
WY_BFO_TLS_SSRN
WY_BFO_CSU_FQM
WY_BFO_CSU_RN
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLR

WY-184Q-434 257.41 Acres
T.0460N, R.0730W, 06th PM, WY
Sec. 018 LOTS 5,6,11-13;
Campbell County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Special Lease Notice: There is a single
(or multiple) unplugged wellbore(s)
and/or other facilities located on this
parcel. For more information, please
contact a Petroleum Engineer at the
Buffalo Field Office at (307) 684-1100.
WY_BFO_NSO_SSRN
WY_BFO_TLS_NSSRN
WY_BFO_TLS_SSRN
WY_BFO_CSU_RN
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLR

WY-184Q-435 603.85 Acres
T.0380N, R.0740W, 06th PM, WY
Sec. 009 LOTS 1-8;
Converse County
Casper FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
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
3 miles or visual horizon of the historic
trail, whichever is closer, 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 cultural and
scenic values of the Bozeman Trail.
WY_SW_TLS_GHMAL
WY_BFO_NSO_H
WY_BFO_NSO_PBACEC
WY_BFO_NSO_Slopes50
WY_BFO_NSO_TCP
WY_BFO_TLS_EWR
WY_BFO_TLS_NSSRN
WY_BFO_CSU_BEGE
WY_BFO_CSU_FQM
WY_BFO_CSU_H
WY_BFO_CSU_Slopes25to50
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLB
WY_BFO_CSU_SSWLR
WY_BFO_CSU_TCP
WY_BFO_CSU_VRMII
WY_BFO_CSU_SE
WY_BFO_CSU_SLR

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
3 miles or visual horizon of the historic
trail, whichever is closer, 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 cultural and
scenic values of the Bozeman Trail.

WY-184Q-436 315.98 Acres
T.0380N, R.0740W, 06th PM, WY
Sec. 005 LOTS 5-8;
Converse County
Casper FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
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
3 miles or visual horizon of the historic
trail, whichever is closer, 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 cultural and
scenic values of the Bozeman Trail.
WY_BFO_NSO_H
WY_BFO_NSO_PBACEC
WY_BFO_NSO_Slopes50
WY_BFO_NSO_TCP
WY_BFO_TLS_EWR
WY_BFO_TLS_NSSRN
WY_BFO_CSU_BE
WY_BFO_CSU_FQM
WY_BFO_CSU_H
WY_BFO_CSU_Slopes25to50
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLB
WY_BFO_CSU_SSWLR
WY_BFO_CSU_TCP
WY_BFO_CSU_VRMII
WY_BFO_CSU_SE
WY_BFO_CSU_SLR

WY-184Q-437 40 Acres
T.0400N, R.0750W, 06th PM, WY
Sec. 009 SWNE;
Converse County
Casper FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
CSU (1) Surface occupancy or use within
3 miles or visual horizon of the historic
trail, whichever is closer, 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 cultural and
scenic values of the Bozeman Trail.

WY-184Q-438 267.77 Acres
T.0430N, R.0750W, 06th PM, WY
Sec. 004 LOTS 6-11;
Campbell County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHMAL
WY_BFO_NSO_H
WY_BFO_NSO_PBACEC
WY_BFO_NSO_Slopes50
WY_BFO_NSO_TCP
WY_BFO_TLS_EWR
WY_BFO_TLS_NSSRN
WY_BFO_CSU_BE
WY_BFO_CSU_FQM
WY_BFO_CSU_H
WY_BFO_CSU_Slopes25to50
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLB
WY_BFO_CSU_SSWLR
WY_BFO_CSU_TCP
WY_BFO_CSU_VRMII
WY_BFO_CSU_SE
WY_BFO_CSU_SLR

WY-184Q-439 462.39 Acres
T.0430N, R.0750W, 06th PM, WY
Sec. 005 LOTS 5-7,10-16;
006 LOTS 10;
Campbell County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHMAL
WY_BFO_NSO_H
WY_BFO_NSO_PBACEC
WY_BFO_NSO_Slopes50
WY_BFO_NSO_TCP
WY_BFO_TLS_EWR
WY_BFO_TLS_NSSRN
WY_BFO_CSU_BE
WY_BFO_CSU_FQM
WY_BFO_CSU_H
WY_BFO_CSU_Slopes25to50
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLB
WY_BFO_CSU_SSWLR
WY_BFO_CSU_TCP
WY_BFO_CSU_VRMII
WY_BFO_CSU_SE
WY_BFO_CSU_SLR
WY_BFO_CSU_TCP
WY_BFO_CSU_VRMII
WY_BFO_CSU_SE
WY_BFO_CSU_SLR
WY_BFO_CSU_H20500F

WY-184Q-440  202.14 Acres
T.0440N, R.0750W, 06th PM, WY
Sec.  006  LOTS 18;
 007  LOTS 8,9,19;
T.0440N, R.0760W, 06th PM, WY
Sec.  027  SWSW;
Campbell County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Special Lease Notice: There is a single
(or multiple) unplugged wellbore(s)
and/or other facilities located on this
parcel. For more information, please
contact a Petroleum Engineer at the
Buffalo Field Office at (307) 684-1100.

WY-184Q-441  1072.78 Acres
T.0450N, R.0750W, 06th PM, WY
Sec.  002  LOTS 7-16;
 002  SESE;
 003  LOTS 5,8-13,20;
 004  LOTS 5,6,11,14;
 005  LOTS 15-18;
Campbell County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-442  1679.7 Acres
T.0450N, R.0750W, 06th PM, WY
Sec.  008  LOTS 1-16;
 017  LOTS 1-10,15,16;
 021  LOTS 1,2,5-8,13;
 027  LOTS 3;
T.0440N, R.0760W, 06th PM, WY
Sec.  001  LOTS 1,3,4;
 001  SWNW;W2SW;SESW;
Campbell County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-443  40.4 Acres
T.0450N, R.0750W, 06th PM, WY
Sec.  017  LOTS 16;
Campbell County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-444  391.71 Acres
T.0460N, R.0750W, 06th PM, WY
Sec.  018  LOTS 8,9,16,17;
Campbell County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-445  279.35 Acres
T.0460N, R.0750W, 06th PM, WY
Sec.  027  LOTS 1-10;
Campbell County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-446  1326.28 Acres
T.0460N, R.0750W, 06th PM, WY
Sec.  029  LOTS 1,2,4,11,12;
 030  LOTS 7-10,15-18;
 031  LOTS 5-7,10-15,18-20;
Campbell County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-447  319.71 Acres
T.0460N, R.0750W, 06th PM, WY
Sec.  018  LOTS 8,9,16,17;
Campbell County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_BFO_CSU_R500F
WY_BFO_CSU_SSWLAR
WY_BFO_CSU_SE

WY-184Q-442  1679.7 Acres
T.0450N, R.0750W, 06th PM, WY
Sec.  008  LOTS 1-16;
 017  LOTS 1-10,15,16;
 021  LOTS 1,2,5-8,13;
 027  LOTS 3;
T.0440N, R.0760W, 06th PM, WY
Sec.  001  LOTS 1,3,4;
 001  SWNW;W2SW;SESW;
Campbell County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_BFO_CSU_R500F
WY_BFO_CSU_SSWLAR
WY_BFO_CSU_SE

WY-184Q-443  40.4 Acres
T.0450N, R.0750W, 06th PM, WY
Sec.  017  LOTS 16;
Campbell County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_BFO_CSU_R500F
WY_BFO_CSU_SSWLAR
WY_BFO_CSU_SE

WY-184Q-444  391.71 Acres
T.0460N, R.0750W, 06th PM, WY
Sec.  018  LOTS 8,9,16,17;
Campbell County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_BFO_CSU_R500F
WY_BFO_CSU_SSWLAR
WY_BFO_CSU_SE

WY-184Q-445  279.35 Acres
T.0460N, R.0750W, 06th PM, WY
Sec.  027  LOTS 1-10;
Campbell County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_BFO_CSU_R500F
WY_BFO_CSU_SSWLAR
WY_BFO_CSU_SE

WY-184Q-446  1326.28 Acres
T.0460N, R.0750W, 06th PM, WY
Sec.  029  LOTS 1,2,4,11,12;
 030  LOTS 7-10,15-18;
 031  LOTS 5-7,10-15,18-20;
Campbell County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_BFO_CSU_R500F
WY_BFO_CSU_SSWLAR
WY_BFO_CSU_SE
WY-184Q-447  847.32 Acres
T.0460N, R.0750W, 06th PM, WY
Sec. 032  LOTS 2-4,9-12;
033  NENW;
034  LOTS 1-3;
T.0450N, R.0760W, 06th PM, WY
Sec. 014  LOTS 12,13;
Campbell County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

Special Lease Notice: There is a single
(or multiple) unplugged wellbore(s)
and/or other facilities located on this
parcel. For more information, please
contact a Petroleum Engineer at the
Buffalo Field Office at (307) 684-1100.

WY-184Q-450  80.68 Acres
T.0470N, R.0750W, 06th PM, WY
Sec. 022  LOTS 1,7;
Campbell County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

Special Lease Notice: There is a single
(or multiple) unplugged wellbore(s)
and/or other facilities located on this
parcel. For more information, please
contact a Petroleum Engineer at the
Buffalo Field Office at (307) 684-1100.

WY-184Q-451  402.72 Acres
T.0470N, R.0750W, 06th PM, WY
Sec. 023  LOTS 1,2,4,5,7-10,11,14,15;
Campbell County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

Special Lease Notice: There is a single
(or multiple) unplugged wellbore(s)
and/or other facilities located on this
parcel. For more information, please
contact a Petroleum Engineer at the
Buffalo Field Office at (307) 684-1100.

WY-184Q-452  318.44 Acres
T.0470N, R.0750W, 06th PM, WY
Sec. 024  LOTS 3-6,11-14;
Campbell County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Notice No. 3

Special Lease Notice: There is a single
(or multiple) unplugged wellbore(s)
and/or other facilities located on this
parcel. For more information, please
contact a Petroleum Engineer at the
Buffalo Field Office at (307) 684-1100.

WY-184Q-453  118.51 Acres
T.0470N, R.0750W, 06th PM, WY
Sec. 025  LOTS 3,4,6;
Campbell County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Notice No. 3

Special Lease Notice: There is a single
(or multiple) unplugged wellbore(s)
and/or other facilities located on this
parcel. For more information, please
contact a Petroleum Engineer at the
Buffalo Field Office at (307) 684-1100.

WY-184Q-454  440 Acres
T.0440N, R.0760W, 06th PM, WY
Sec. 002  N2SE,SWSE;
022  W2;
Campbell County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

Special Lease Notice: There is a single
(or multiple) unplugged wellbore(s)
and/or other facilities located on this
parcel. For more information, please
contact a Petroleum Engineer at the
Buffalo Field Office at (307) 684-1100.

WY-184Q-455  440 Acres
T.0440N, R.0760W, 06th PM, WY
Sec. 002  N2SE,SWSE;
022  W2;
Campbell County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Notice No. 3

Special Lease Notice: There is a single
(or multiple) unplugged wellbore(s)
and/or other facilities located on this
parcel. For more information, please
contact a Petroleum Engineer at the
Buffalo Field Office at (307) 684-1100.
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Special Lease Notice: There is a single (or multiple) unplugged wellbore(s) and/or other facilities located on this parcel. For more information, please contact a Petroleum Engineer at the Buffalo Field Office at (307) 684-1100.

WY_SW_TLS_GHMAL
WY_BFO_NSO_H
WY_BFO_NSO_Slopes50
WY_BFO_NSO_TCP
WY_BFO_TLS_EWR
WY_BFO_TLS_NSSRN
WY_BFO_CSU_BEGE
WY_BFO_CSU_BEGE
WY_BFO_CSU_FQM
WY_BFO_CSU_H
WY_BFO_CSU_PD
WY_BFO_CSU_RN
WY_BFO_CSU_Slopes25to50
WY_BFO_CSU_TCP
WY_BFO_CSU_VRMII
WY_BFO_CSU_SE
WY_BFO_CSU_SLR

WY-184Q-457  40 Acres
T.0430N, R.0760W, 06th PM, WY
Sec. 018  NENW;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Special Lease Notice: There is a single (or multiple) unplugged wellbore(s) and/or other facilities located on this parcel. For more information, please contact a Petroleum Engineer at the Buffalo Field Office at (307) 684-1100.

WY_BFO_CSU_R500F
WY_BFO_CSU_H20500F
WY_BFO_CSU_PD
WY_BFO_CSU_R500F
WY_BFO_CSU_Slopes25to50
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLB
WY_BFO_CSU_SSWLR

WY_SW_TLS_GHMAL
WY_BFO_NSO_SSRN
WY_BFO_TLS_SSRN
WY_BFO_CSU_H
WY_BFO_CSU_RN
WY_BFO_CSU_Slopes25to50
WY_BFO_CSU_TCP
WY_BFO_CSU_SE
WY_BFO_CSU_SSWLB
WY_BFO_CSU_SSWLR

WY-184Q-460  722.43 Acres
T.0420N, R.0780W, 06th PM, WY
Sec. 001  LOTS 1-4;
001  S2N2,N2SW,SE;
002  SE;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHMAL
WY_BFO_NSO_Slopes50
WY_BFO_NSO_SSRN
WY_BFO_TLS_SSRN
WY_BFO_CSU_BEGE
WY_BFO_CSU_BEGE
WY_BFO_CSU_FQM
WY_BFO_CSU_H
WY_BFO_CSU_PD
WY_BFO_CSU_R500F
WY_BFO_CSU_Slopes25to50
WY_BFO_CSU_TCP
WY_BFO_CSU_VRMII
WY_BFO_CSU_SE
WY_BFO_CSU_SLR

WY-184Q-461  323.21 Acres
T.0420N, R.0780W, 06th PM, WY
Sec. 002  LOTS 1-4;
002  S2N2;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Special Lease Notice: There is a single (or multiple) unplugged wellbore(s) and/or other facilities located on this parcel. For more information, please contact a Petroleum Engineer at the Buffalo Field Office at (307) 684-1100.

WY-184Q-462  480.19 Acres  
T.0420N, R.0780W, 06th PM, WY  
Sec. 003 LOTS 1-4;  
003 S2N2,SW;  
Johnson County  
Buffalo FO  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
WY_BFO_CSU_PD  
WY_BFO_CSU_RSOF0F  
WY_BFO_CSU_RN  
WY_BFO_CSU_Slopes2sto50  
WY_BFO_CSU_SSSLA  
WY_BFO_CSU_SSSLB  
WY_BFO_CSU_SSSLR  

WY-184Q-463  2296.55 Acres  
T.0420N, R.0780W, 06th PM, WY  
Sec. 003 LOTS 1-4;  
003 S2N2,SE;  
006 LOTS 1-7;  
006 S2NE,SENW,E2SW,SE;  
012 SESE;  
012 NE,SENW,W2NW,SW,N2SE, 
013 NE,E2NW,S2;  
024 N2NE,NENW;  
028 SENE,SWSE;  
Johnson County  
Buffalo FO  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
WY_BFO_CSU_PD  
WY_BFO_CSU_RSOF0F  
WY_BFO_CSU_RN  
WY_BFO_CSU_Slopes2sto50  
WY_BFO_CSU_SSSLA  
WY_BFO_CSU_SSSLB  
WY_BFO_CSU_SSSLR  

WY-184Q-464  200 Acres  
T.0420N, R.0780W, 06th PM, WY  
Sec. 004 LOTS 1-4;  
004 SWNW,N2SW,SESW;  
Johnson County  
Buffalo FO  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
WY_BFO_CSU_PD  
WY_BFO_CSU_RSOF0F  
WY_BFO_CSU_Slopes2sto50  
WY_BFO_CSU_SSSLA  
WY_BFO_CSU_SSSLB  
WY_BFO_CSU_SSSLR  

WY-184Q-465  1117.71 Acres  
T.0430N, R.0780W, 06th PM, WY  
Sec. 002 LOTS 1-4;  
002 S2N2,N2;  
003 LOTS 1-4;  
003 S2N2,SW;  
Johnson County  
Buffalo FO  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
WY_BFO_CSU_PD  
WY_BFO_CSU_RSOF0F  
WY_BFO_CSU_Slopes2sto50  
WY_BFO_CSU_SSSLA  
WY_BFO_CSU_SSSLB  
WY_BFO_CSU_SSSLR  

WY-184Q-466  554.44 Acres  
T.0430N, R.0780W, 06th PM, WY  
Sec. 004 LOTS 1-2;  
004 S2NE;  
005 LOTS 4;  
005 S2NW,NWSE;  
006 LOTS 1-4;  
006 SWNE,SENW;  
Johnson County  
Buffalo FO  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
WY_BFO_TLS_PHMAL  
WY_SW_TLS_PHMAWCA  
WY_SW_CSU_PHMA  
WY_BFO_NSO_Slopes50  
WY_BFO_RSOF0F  
WY_BFO_CSU_FQM  
WY_BFO_CSU_GSGRH  
WY_BFO_CSU_BEGE  
WY_BFO_CSU_PD  
WY_BFO_CSU_RSOF0F  
WY_BFO_CSU_Slopes2sto50  
WY_BFO_CSU_SSSLLA  
WY_BFO_CSU_SSSLR  
WY_BFO_CSU_SSLR  

WY-184Q-467  2377.16 Acres  
T.0430N, R.0780W, 06th PM, WY  
Sec. 004 5E;  
010 E2W2,NWWN;  
012 W2;  
020 NENE,SWSE;  
021 N2N2,SENE;  
022 NW;  
028 ALL;  
029 NWNE,NESE;  
030 LOTS 1,2;  
030 NE,E2NW;  
031 LOTS 3,4;  
031 E3SW;  
032 W2NW;  
Johnson County  
Buffalo FO  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
WY_SW_TLS_PHMAL  
WY_SW_TLS_PHMAWCA  
WY_SW_CSU_PHMA  
WY_BFO_NSO_Slopes50  
WY_BFO_RSOF0F  
WY_BFO_CSU_FQM  
WY_BFO_CSU_BEGE  
WY_BFO_CSU_R20500F  
WY_BFO_CSU_RSOF0F  
WY_BFO_CSU_Slopes2sto50  
WY_BFO_CSU_SSSLLA  
WY_BFO_CSU_SSSLR  
WY_BFO_CSU_SSLR  

DOI-BLM-WY-0000-2018-0004-EA  5-92
Special Lease Notice: There is a single (or multiple) unplugged wellbore(s) and/or other facilities located on this parcel. For more information, please contact a Petroleum Engineer at the Buffalo Field Office at (307) 684-1100.
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Special Lease Notice: There is a single (or multiple) unplugged wellbore(s) and/or other facilities located on this parcel. For more information, please contact a Petroleum Engineer at the Buffalo Field Office at (307) 684-1100.

WY_SW_NSO_GHMAL
WY_BFO_NSO_Sloop50
WY_BFO_NSO_SSRN
WY_BFO_TLS_GHMAL
WY_BFO_TLS_NSSRN
WY_BFO_BCSU_Sloop2to50
WY_BFO_BCSU_SSWLA
WY_BFO_BCSU_SWLR
WY_BFO_BCSU_SE

WY-184Q-475  634.75 Acres
T.0430N, R.0780W, 06th PM, WY
Sec. 031 N2NE, NENW; 031 S2NE,SENW;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 3
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_BFO_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
WY_BFO_NSO_HP
WY_BFO_TLS_EWR
WY_BFO_TLS_NSSRN
WY_BFO_BCSU_BEGE
WY_BFO_NSO_BEGE
WY_BFO_BCSU_GSGRH
WY_BFO_BCSU_H
WY_BFO_BCSU_H20500F
WY_BFO_BCSU_PD
WY_BFO_BCSU_R500F
WY_BFO_BCSU_RN
WY_BFO_BCSU_Sloop2to50
WY_BFO_BCSU_SSWLA
WY_BFO_BCSU_SWLR
WY_BFO_BCSU_SE

WY-184Q-477  370.2 Acres
T.0440N, R.0780W, 06th PM, WY
Sec. 008 LOTS 3,13-19;
009 LOTS 3,13-19;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_BFO_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
WY_BFO_NSO_H
WY_BFO_NSO_SSRN
WY_BFO_TLS_EWR
WY_BFO_TLS_NSSRN
WY_BFO_TLS_SSRN
WY_BFO_BCSU_BEGE
WY_BFO_BCSU_FQM
WY_BFO_BCSU_H
WY_BFO_BCSU_H20500F
WY_BFO_BCSU_PD
WY_BFO_BCSU_R500F
WY_BFO_BCSU_RN
WY_BFO_BCSU_Sloop2to50
WY_BFO_BCSU_SSWLA
WY_BFO_BCSU_SWLR
WY_BFO_BCSU_SE

WY-184Q-478  1167.54 Acres
T.0440N, R.0780W, 06th PM, WY
Sec. 006 LOTS 2,15-23;
007 LOTS 2-13;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
<table>
<thead>
<tr>
<th>Parcel Number</th>
<th>Acres</th>
<th>Section</th>
<th>Township</th>
<th>Range</th>
<th>PM</th>
<th>Township</th>
<th>Range</th>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WY-184Q-479</td>
<td>1084.31</td>
<td>020</td>
<td>044</td>
<td>078</td>
<td>06</td>
<td>044</td>
<td>078</td>
<td>009</td>
<td>LOTS 4-12; 014 LOTS 5-13; 017 LOTS 16-26; 018 LOTS 5-19; 019 LOTS 13-14; Johnson County Buffalo FO Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 WY-184Q-480</td>
</tr>
</tbody>
</table>
WY-184Q-484  670.25 Acres
T.0440N, R.0780W, 06th PM, WY
Sec. 035  LOTS 1-16;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-485  437.64 Acres
T.0430N, R.0790W, 06th PM, WY
Sec. 001   LOT 2 (EXCL 2.00 AC IN
001   RSVR ROW WYW0119062);
002   SWSW;
003   S2NE,SENW,E2SW,SE;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-486  2513.82 Acres
T.0430N, R.0790W, 06th PM, WY
Sec. 002   LOTS 3-4;
003   SWNW,W2SW;
004   LOTS 1-4;
004   S2N2,S2;

WY-184Q-487  870.85 Acres
T.0430N, R.0790W, 06th PM, WY
Sec. 010   N2NE;
022   N2NW,SWNW,SESW,SE;
023   S2SE;
024   SENW,N2SW,S2SE;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-488  565 Acres
T.0430N, R.0790W, 06th PM, WY
Sec. 019   LOTS 3;
019   NENE,S2NE,NE5W,W2SE;
021   NE,N2S2,SWSE;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_BFO_NSO_H
WY_BFO_NSO_Slopes50
WY_BFO_TLS_EWR
WY_BFO_CSU_BEGE
WY_BFO_CSU_BE
WY_BFO_CSU_FQM
WY_BFO_CSU_H
WY_BFO_CSU_H20500F
WY_BFO_CSU_RS500F
WY_BFO_CSU_Slopes25sto50
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLR
WY_BFO_CSU_VRMII

WY-184Q-493 1280 Acres
T.0430N, R.0790W, 06th PM, WY
Sec. 027 N2,NWSW; 034 NE,N2NW,SWNW; 035 ALL;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_BFO_NSO_Slopes50
WY_BFO_CSU_FQM
WY_BFO_CSU_H
WY_BFO_CSU_H20500F
WY_BFO_CSU_RS500F
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLR
WY_BFO_CSU_VRMII

WY-184Q-495 461.14 Acres
T.0440N, R.0790W, 06th PM, WY
Sec. 001 LOTS 1-4; 002 SW; 004 LOTS 1,2;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_BFO_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_BFO_CSU_GSGRH
WY_BFO_CSU_H
WY_BFO_CSU_RN
WY_BFO_CSU_SSWLB
WY_BFO_CSU_VRMII
WY_BFO_CSU_SSWLR
WY_BFO_CSU_SE

WY-184Q-496 1010.22 Acres
T.0440N, R.0790W, 06th PM, WY
Sec. 002 SWNE,S2NW; 003 S2SW,SWSE; 004 LOTS 3,4;
005 LOTS 1-4;
005 SE;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_BFO_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_BFO_CSU_GSGRH
WY_BFO_CSU_H
WY_BFO_CSU_RS500F
WY_BFO_CSU_RS500F
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLR
WY_BFO_CSU_VRMII
WY_BFO_CSU_SSWLR
WY_BFO_CSU_SE

WY-184Q-497 1120 Acres
T.0430N, R.0790W, 06th PM, WY
Sec. 025 N2,SE; 026 ALL;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_BFO_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_BFO_CSU_GSGRH
WY_BFO_CSU_H
WY_BFO_CSU_RS500F
WY_BFO_CSU_RS500F
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLR
WY_BFO_CSU_VRMII
WY_BFO_CSU_SSWLR
WY_BFO_CSU_SE

WY-184Q-498 113.24 Acres
T.0430N, R.0790W, 06th PM, WY
Sec. 019 LOTS 4; 019 SESW,NESE; 021 S2NW,S2SW;
023 NENW; 025 SW; 027 NESW,S2SW,SE; 034 S2S2;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_BFO_NSO_H
WY_BFO_NSO_Slopes50
WY_BFO_TLS_EWR
WY_BFO_CSU_BEGE
WY_BFO_CSU_BE
WY_BFO_CSU_FQM
WY_BFO_CSU_H
WY_BFO_CSU_H20500F
WY_BFO_CSU_RS500F
WY_BFO_CSU_Slopes25sto50
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLR
WY_BFO_CSU_VRMII

WY-184Q-499 2244.83 Acres
T.0430N, R.0790W, 06th PM, WY
Sec. 028 SENE,N2,SENW,NESE,S2SE; T.0430N, R.0800W, 06th PM, WY
Sec. 001 LOTS 1-4; 002 SW;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_BFO_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_BFO_CSU_GSGRH
WY_BFO_CSU_H
WY_BFO_CSU_RS500F
WY_BFO_CSU_RS500F
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLR
WY_BFO_CSU_VRMII
WY_BFO_CSU_SSWLR
WY_BFO_CSU_SE

WY-184Q-500 461.14 Acres
T.0440N, R.0790W, 06th PM, WY
Sec. 001 LOTS 1-4; 002 S2NE,SE;
004 SW;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_BFO_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_BFO_CSU_GSGRH
WY_BFO_CSU_H
WY_BFO_CSU_RS500F
WY_BFO_CSU_RS500F
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLR
WY_BFO_CSU_VRMII
WY_BFO_CSU_SSWLR
WY_BFO_CSU_SE
WY_BFO_CSU_H
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLB
WY_BFO_CSU_SSWLR
WY_BFO_CSU_SE

WY-184Q-497 571.09 Acres
T.0440N, R.0790W, 06th PM, WY
Sec. 006 Lots 1-7; 006 S2NE, SENW, E2SW, SE;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_BFO_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
WY_BFO_TLS_NSSRN
WY_BFO_CSU_GSGRH
WY_BFO_CSU_H
WY_BFO_CSU_RN
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLB
WY_BFO_CSU_SSWLR
WY_BFO_CSU_SE
WY_BFO_CSU_SLR

WY-184Q-498 1336.69 Acres
T.0440N, R.0790W, 06th PM, WY
Sec. 007 Lots 1,2; 007 NE, E2NW; 008 N2, E2SE; 009 ALL;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_BFO_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
WY_BFO_TLS_NSSRN
WY_BFO_CSU_GSGRH
WY_BFO_CSU_H
WY_BFO_CSU_Slopes25to50
WY_BFO_CSU_RN
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLB
WY_BFO_CSU_SSWLR
WY_BFO_CSU_SLR
WY_BFO_CSU_PD

WY-184Q-500 1840 Acres
T.0440N, R.0790W, 06th PM, WY
Sec. 013 ALL; 014 ALL; 015 N2, E2SW, SE;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_BFO_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
WY_BFO_TLS_NSSRN
WY_BFO_CSU_GSGRH
WY_BFO_CSU_H
WY_BFO_CSU_RN
WY_BFO_CSU_Slopes25to50
WY_BFO_CSU_SE
WY_BFO_CSU_SLR

WY-184Q-501 924.23 Acres
T.0440N, R.0790W, 06th PM, WY
Sec. 015 ALL; 015 N2, E2SW, SE;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_BFO_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
WY_BFO_TLS_NSSRN
WY_BFO_CSU_GSGRH
WY_BFO_CSU_H
WY_BFO_CSU_RN
WY_BFO_CSU_Slopes25to50
WY_BFO_CSU_SE
WY_BFO_CSU_SLR

WY-184Q-502 1120 Acres
T.0440N, R.0790W, 06th PM, WY
Sec. 020 W2SW; 021 NE, E2SE; 022 ALL; 023 SE;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_BFO_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
WY_BFO_TLS_NSSRN
WY_BFO_CSU_GSGRH
WY_BFO_CSU_H
WY_BFO_CSU_RN
WY_BFO_CSU_Slopes25to50
WY_BFO_CSU_SE
WY_BFO_CSU_SLR

WY-184Q-503 800 Acres
T.0440N, R.0790W, 06th PM, WY
Sec. 023 NE, SW; 024 N2NE, W2, W2SE;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_BFO_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
WY_BFO_TLS_NSSRN
WY_BFO_CSU_GSGRH
WY_BFO_CSU_H
WY_BFO_CSU_RN
WY_BFO_CSU_Slopes25to50
WY_BFO_CSU_SE
WY_BFO_CSU_SLR

WY-184Q-504 924.23 Acres
T.0440N, R.0790W, 06th PM, WY
Sec. 015 W2SW; 017 E2NE, SWNW, N2SW, SE;
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_BFO_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
WY_BFO_TLS_NSSRN
WY_BFO_CSU_GSGRH
WY_BFO_CSU_H
WY_BFO_CSU_RN
WY_BFO_CSU_Slopes25to50
WY_BFO_CSU_SE
WY_BFO_CSU_SLR

WY-184Q-505 1240 Acres
T.0440N, R.0790W, 06th PM, WY
Sec. 010 W2E2, W2SE;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_BFO_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
WY_BFO_TLS_NSSRN
WY_BFO_CSU_GSGRH
WY_BFO_CSU_H
WY_BFO_CSU_RN
WY_BFO_CSU_Slopes25to50
WY_BFO_CSU_SE
WY_BFO_CSU_SLR
WY_BFO_CSU_GSGRH
WY_BFO_CSU_H
WY_BFO_CSU_RN
WY_BFO_CSU_Slopes25to50
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLB
WY_BFO_CSU_SSWLR
WY_BFO_CSU_SE

WY-184Q-504 560 Acres
T.0440N, R.0790W, 06th PM, WY
Sec. 024 S2NE,E2SE;
025 W2NE,W2;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-505 840 Acres
T.0440N, R.0790W, 06th PM, WY
Sec. 025 E2NE,ESE;
026 N2,N2SW,SSES,SE;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-507 1158.52 Acres
T.0440N, R.0790W, 06th PM, WY
Sec. 028 E2;
029 NENE,W2E2,W2,SESE;
030 LOTS 1-4;
030 E2W2;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-508 1240.24 Acres
T.0440N, R.0790W, 06th PM, WY
Sec. 031 E2,E2W2;
032 ALL;
033 ALL;
035 S2;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-509 1600 Acres
T.0440N, R.0790W, 06th PM, WY
Sec. 033 ALL;
034 ALL;
035 S2;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_BFO_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
WY_BFO_TLS_NSSRN
WY_BFO_CSU_GSGRH
WY_BFO_CSU_H
WY_BFO_CSU_RN
WY_BFO_CSU_Slopes25to50
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLB
WY_BFO_CSU_SSWLR

WY-184Q-510 2160 Acres
T.0450N, R.0790W, 06th PM, WY
Sec. 009 E2;
017 E2SW,SE;
020 E2;
021 ALL;
028 ALL;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_BFO_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
WY_BFO_TLS_NSSRN
WY_BFO_CSU_GSGRH
WY_BFO_CSU_H
WY_BFO_CSU_R500F
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLR
WY_BFO_CSU_PD

WY_BFO_CSU_SSWLR

WY-184Q-511 2402.64 Acres
T.0450N, R.0790W, 06th PM, WY
Sec. 029 ALL;
030 LOTS 3,4;
030 E2,E2SW;
031 LOTS 1-4;
031 E2,E2W2;
032 ALL;

Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

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

WY_BFO_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_Phma
WY_BFO_NSSRN
WY_BFO_CSU_GSGRH
WY_BFO_CSU_H
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLR

WY-184Q-514  160.1 Acres
T.0460N, R.0790W, 06th PM, WY
Sec. 019 LOTS 3,4;
019 E2SW;
Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_BFO_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_Phma
WY_BFO_NSSRN
WY_BFO_CSU_GSGRH
WY_BFO_CSU_H
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLR

WY-184Q-515  561.99 Acres
T.0460N, R.0790W, 06th PM, WY
Sec. 019 LOTS 1,11-14,16;

Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_BFO_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_Phma
WY_BFO_NSSRN
WY_BFO_CSU_GSGRH
WY_BFO_CSU_H
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLR

WY-184Q-516  488.12 Acres
T.0470N, R.0790W, 06th PM, WY
Sec. 029 LOTS 1,2,7,10,15,16;
T.0470N, R.0800W, 06th PM, WY
Sec. 029 LOTS 12,13,14,15,16;
031 LOTS 3,4;

Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_SW_NSO_GHMAL
WY_SW_TLS_GHMAL
WY_BFO_TLS_EWR

WY-184Q-517        480 Acres
T.0500N, R.0790W, 06th PM, WY
Sec. 029 N2SE;

Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_BFO_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_Phma
WY_BFO_NSSRN
WY_BFO_CSU_GSGRH
WY_BFO_CSU_H
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLR

WY-184Q-518  680.76 Acres
T.0470N, R.0790W, 06th PM, WY
Sec. 027 LOTS 1,5,7,11-14,16;
028 LOTS 3-6;

Johnson County
Buffalo FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
surface managing agency arrive at acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Casper Field Office GIS database; (3) protecting airport flight paths.

CSU (1) Surface occupancy or use within 1/4 mile of the Bald Eagle Concentration Feeding Areas 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 Casper Field Office GIS database; (3) protecting Bald Eagle Feeding Areas.

CSU (1) Surface occupancy or use within 0.25 miles or visual horizon of the historic trail, whichever is closer, 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 cultural and scenic values of the Oregon Trail.

CSU (1) Surface occupancy or use within 3 miles or visual horizon of the historic trail, whichever is closer, 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 cultural and scenic values of the Oregon Trail.
<table>
<thead>
<tr>
<th>Parcel ID</th>
<th>Description</th>
<th>Acres</th>
<th>Sec.</th>
<th>T.</th>
<th>R.</th>
<th>PM</th>
<th>County</th>
</tr>
</thead>
<tbody>
<tr>
<td>WY-184Q-523</td>
<td>1664.86 Acres</td>
<td></td>
<td>001</td>
<td>044</td>
<td>080</td>
<td>06th</td>
<td>Johnson County</td>
</tr>
<tr>
<td>WY-184Q-524</td>
<td>1707.65 Acres</td>
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<td>009</td>
<td>047</td>
<td>080</td>
<td>06th</td>
<td>Johnson County</td>
</tr>
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<td>WY-184Q-525</td>
<td>807.73 Acres</td>
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<td>006</td>
<td>047</td>
<td>080</td>
<td>06th</td>
<td>Johnson County</td>
</tr>
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<td>WY-184Q-526</td>
<td>243.64 Acres</td>
<td></td>
<td>004</td>
<td>048</td>
<td>080</td>
<td>06th</td>
<td>Johnson County</td>
</tr>
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<td>T.0480N</td>
<td>2240.2 Acres</td>
<td></td>
<td>004</td>
<td>048</td>
<td>081</td>
<td>06th</td>
<td>Johnson County</td>
</tr>
</tbody>
</table>

Stipulations:

- Lease Notice No. 1
- Lease Notice No. 2
- Lease Notice No. 3
- Lease Stipulation No. 1
- Lease Stipulation No. 2
- Lease Stipulation No. 3
WY_BFO_CSU_FQM
WY_BFO_CSU_GSGRH
WY_BFO_CSU_H
WY_BFO_CSU_PD
WY_BFO_CSU_H20500F
WY_BFO_CSU_R500F
WY_BFO_CSU_RN
WY_BFO_CSU_Slopes25to50
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLR
WY_BFO_CSU_SE
WY_BFO_CSU_SLR

WY-184Q-S29 2402.99 Acres
T.0480N, R.0800W, 06th PM, WY
Sec. 017 ALL;
019 NENE,S2NE,SE;
020 NENE,NENW,W2W2;
029 NWNW,E2SW;
030 NE,NENW,S2NW,S2;
031 NE,NENW,W2SE;
032 NENW,S2NW,N2;
Johnson County
Buffalo FO

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

WY_BFO_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
WY_SW_NSO_PHMAL
WY_BFO_TLS_EWR
WY_BFO_CSU_BEGE
WY_BFO_NSO_BEGE
WY_BFO_CSU_FQM
WY_BFO_CSU_GSGRH
WY_BFO_CSU_H
WY_BFO_CSU_RD
WY_BFO_CSU_PD
WY_BFO_CSU_Slopes25to50
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLR
WY_BFO_CSU_SE
WY_BFO_CSU_SLR

WY-184Q-S31 760 Acres
T.0500N, R.0800W, 06th PM, WY
Sec. 025 W2W2,SESW;
027 N2,N2S2,S2SE;
028 W2W2;SE;
029 LOTS 1-16;
030 LOTS 1-16;
031 LOTS 1-16;
032 NE,NENW,S2NW,S2;
Johnson County
Buffalo FO

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

WY_BFO_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
WY_SW_NSO_PHMAL
WY_BFO_TLS_EWR
WY_BFO_CSU_BEGE
WY_BFO_NSO_BEGE
WY_BFO_CSU_FQM
WY_BFO_CSU_GSGRH
WY_BFO_CSU_H
WY_BFO_CSU_RD
WY_BFO_CSU_PD
WY_BFO_CSU_Slopes25to50
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLR
WY_BFO_CSU_SE
WY_BFO_CSU_SLR

WY_BFO_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
WY_SW_NSO_PHMAL
WY_BFO_TLS_EWR
WY_BFO_CSU_BEGE
WY_BFO_NSO_BEGE
WY_BFO_CSU_FQM
WY_BFO_CSU_GSGRH
WY_BFO_CSU_RD
WY_BFO_CSU_PD
WY_BFO_CSU_Slopes25to50
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLR
WY_BFO_CSU_SE
WY_BFO_CSU_SLR

WY-184Q-S51 2499 Acres
T.0480N, R.0810W, 06th PM, WY
Sec. 021 ALL;
022 NENE,SWSE,W2W2;
023 W2W2;SE;
024 N2,N2S2,S2SE;
025 W2W2;SE;
Johnson County
Buffalo FO

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

WY_BFO_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
WY_SW_NSO_PHMAL
WY_BFO_TLS_EWR
WY_BFO_CSU_BEGE
WY_BFO_NSO_BEGE
WY_BFO_CSU_FQM
WY_BFO_CSU_GSGRH
WY_BFO_CSU_RD
WY_BFO_CSU_PD
WY_BFO_CSU_Slopes25to50
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLR
WY_BFO_CSU_SE
WY_BFO_CSU_SLR

WY_BFO_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
WY_SW_NSO_PHMAL
WY_BFO_TLS_EWR
WY_BFO_CSU_BEGE
WY_BFO_NSO_BEGE
WY_BFO_CSU_FQM
WY_BFO_CSU_GSGRH
WY_BFO_CSU_RD
WY_BFO_CSU_PD
WY_BFO_CSU_Slopes25to50
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLR
WY_BFO_CSU_SE
WY_BFO_CSU_SLR

WY-184Q-S50 998.76 Acres
T.0470N, R.0810W, 06th PM, WY
Sec. 001 LOTS 3,4;
001 N2SW,S2;
025 NW,SE;
026 NW,S2SW,S2SW,N2;
Johnson County
Buffalo FO

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

WY_BFO_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
WY_SW_NSO_PHMAL
WY_BFO_TLS_EWR
WY_BFO_CSU_BEGE
WY_BFO_NSO_BEGE
WY_BFO_CSU_FQM
WY_BFO_CSU_GSGRH
WY_BFO_CSU_RD
WY_BFO_CSU_PD
WY_BFO_CSU_Slopes25to50
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLR
WY_BFO_CSU_SE
WY_BFO_CSU_SLR

WY_BFO_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
WY_SW_NSO_PHMAL
WY_BFO_TLS_EWR
WY_BFO_CSU_BEGE
WY_BFO_NSO_BEGE
WY_BFO_CSU_FQM
WY_BFO_CSU_GSGRH
WY_BFO_CSU_RD
WY_BFO_CSU_PD
WY_BFO_CSU_Slopes25to50
WY_BFO_CSU_SSWLA
WY_BFO_CSU_SSWLR
WY_BFO_CSU_SE
WY_BFO_CSU_SLR

WY-184Q-S52 1593.69 Acres
T.0480N, R.0810W, 06th PM, WY
<table>
<thead>
<tr>
<th>Description</th>
<th>Acres</th>
<th>Section</th>
<th>Township</th>
<th>Range</th>
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<td>WY-184Q-543</td>
<td>2278.9</td>
<td>006</td>
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<td>WY-184Q-546</td>
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<td>13</td>
<td>051</td>
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<td>81</td>
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<td>WY-184Q-545</td>
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<td>WY-184Q-547</td>
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<td>005</td>
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**Stipulations:**
- Lease Notice No. 1
- Lease Notice No. 2
- Lease Notice No. 3
- Lease Stipulation No. 1
- Lease Stipulation No. 2
- Lease Stipulation No. 3

**Nodes and Ranges:**
- T.0490N, R.0810W, 06th PM, WY
- T.0490N, R.0810W, 06th PM, WY
- T.0490N, R.0810W, 06th PM, WY
- T.0490N, R.0810W, 06th PM, WY
- T.0490N, R.0810W, 06th PM, WY
Wy-184Q-548 518.98 Acres  
T.0510N, R.0810W, 06th PM, WY  
Sec. 005 LOTS 1-7;  
006 S2NE,SESW,NESW,S2SE;  
Wy-184Q-549 200 Acres  
T.0510N, R.0810W, 06th PM, WY  
Sec. 007 SWNE,SE;  
Wy-184Q-550 120 Acres  
T.0510N, R.0810W, 06th PM, WY  
Sec. 008 W2NW,NWSW;  
Wy-184Q-551 120 Acres  
T.0510N, R.0810W, 06th PM, WY  
Sec. 009 W2SW,SESE;  
Wy-184Q-552 438.6 Acres  
T.0530N, R.0810W, 06th PM, WY  
Sec. 010 LOTS 1-4;  
011 S2NE,S2SW;  
Wy-184Q-553 2356.89 Acres  
T.0530N, R.0810W, 06th PM, WY  
Sec. 013 LOTS 1-4;  
014 S2NE,S2SW;  
Wy-184Q-554 2184.74 Acres  
T.0530N, R.0810W, 06th PM, WY  
Sec. 015 LOTS 1-4;  
016 S2NE,S2SW.
Lease Stipulation No. 1
Lease Notice No. 1
Stipulations:
CSU  (1) Surface occupancy or use will be restricted or prohibited until the operator, after consultation with the FAA Northwest Mountain Region, 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 airport flight paths.
WSY-184Q-537  2248.28 Acres
T.0350N, R.0810W, 06th PM, WY
Sec. 019  E2,E2W2;
019  E2,E2W2;
020  ALL;
021  N2;
022  W2;
025  W2;
020  ALL;
021  N2;
022  W2;
025  W2;
019  E2,E2W2;
018  E2,E2W2;
030  ALL;
030  ALL;
031  E2,E2W2;
Natrona County
Casper FO
Stipulations:
CSU  (1) Surface occupancy or use will be restricted or prohibited until the operator, after consultation with the FAA Northwest Mountain Region, 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 airport flight paths.
WSY-184Q-538  1612.32 Acres
T.0350N, R.0810W, 06th PM, WY
Sec. 031  LOTS 1-4;
031  E2,E2W2;
032  ALL;
033  W2;
032  ALL;
033  W2;
030  ALL;
030  ALL;
018  LOTS 1-4;
018  LOTS 1-4;
017  E2;
017  E2;
015  ALL;
015  ALL;
010  24.65 AC IN RR ROW
010  24.65 AC IN RR ROW
009  Z2SW,NE2,SE2 (EXCL
009  Z2SW,NE2,SE2 (EXCL
008  ALL;
008  ALL;
007  Z2SW,NE2,SE2 (EXCL
007  Z2SW,NE2,SE2 (EXCL
006  ALL;
006  ALL;
005  ALL;
005  ALL;
004  N2SW,SE2 (EXCL
004  N2SW,SE2 (EXCL
003  ALL;
003  ALL;
002  ALL;
002  ALL;
001  ALL;
001  ALL;
000  ALL;
000  ALL;
Lease Stipulation No. 3
NSO  (1) As mapped on the Casper Field Office GIS database; (2) protecting Class I and Class II waters within 500 feet of the South Fork of Casper Creek.
CSU  (1) Surface occupancy or use within 500 feet to 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 Visual Resource Management Areas.

Stipulations:
Casper FO
Natrona County
014   W2NE,SWSE;
012   SWNW;
011   N2,SW,W2SE;
010   N2,SE;
009   W2;
007   S2NE,SENW,E2SW,SE;
006   S2NW,SENW,SENW,SESE;
005   LOTS 1-4;
004   E2SE;
002   E2NW,SENW,E2SW,SE;
001   S2NE,SESW,NESE,S2SE;

T.0320N, R.0830W, 06th PM, WY
Sec. 001   LOTS 1;
000   S2N2;
001   S2NW,SENW,SESE;
002   LOTS 1-4;
003   LOTS 1-4;
004   S2NW,SW;
NE,N2NW,SENW,N2S2,SWSE;
013   NE,W2NW,SENW,S2;
014   E2E2,W2,NWSE;

WY-184Q-553        2463.8 Acres

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

CSU  (1) Surface occupancy or use within greater than 10% sagebrush canopy cover 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 Bates Hole and Fish Creek/Willow Creek area Greater Sage-grouse nesting habitat.

CSU  (1) Surface occupancy or use within 3 miles or visual horizon of the historic trail, whichever is closer, 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 cultural and scenic values of the Oregon Trail.

CSU  (1) Surface occupancy or use within greater than 10% sagebrush canopy cover 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 cultural and scenic values of the Bridger Trail.

CSU  (1) Surface occupancy or use within 3 miles or visual horizon of the historic trail, whichever is closer, 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 cultural and scenic values of the Bridger Trail.

WY-184Q-554        520 Acres

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

CSU (1) Surface occupancy or use within 3 miles or visual horizon of the historic trail, whichever is closer, 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 cultural and scenic values of the Oregon Trail.
Casper FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
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 Casper Field Office GIS database; (3) protecting Bates Hole and Fish Creek/Willow Creek area Greater Sage-grouse nesting habitat.

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 Casper Field Office GIS database; (3) protecting Class I and/or Class II Visual Resource Management Areas.

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 Casper Field Office GIS database; (3) protecting scenic values of the Oregon Trail.

WY-184Q-557 2057.21 Acres
T.0320N, R.0830W, 06th PM, WY
Sec. 026 NWNW,S2SW,NESE,SWSE;
028 N2,W2SW;
029 ALL;
030 LOTS 1-4;
031 S2NE,SE,SWSE;
031 LOTS 1,2;
031 NE;E2NW;

Natrona County
Casper FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
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 Casper Field Office GIS database; (3) protecting Class I and/or Class II Visual Resource Management Areas.

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 Casper Field Office GIS database; (3) protecting scenic values of the Oregon Trail.

WY-184Q-555 2364.04 Acres
T.0320N, R.0830W, 06th PM, WY
Sec. 015 W2;
017 ALL;
018 LOTS 1-4;
018 E2,E2W2;
019 LOTS 1-4;
019 E2W2,N2SE;
020 SENE;
023 NWNE,W2;

Natrona County
Casper FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
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 Casper Field Office GIS database; (3) protecting Class I and/or Class II Visual Resource Management Areas.

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 Casper Field Office GIS database; (3) protecting scenic values of the Oregon Trail.

WY-184Q-556 2313.35 Acres
T.0320N, R.0830W, 06th PM, WY
Sec. 019 S2SE;
020 S2NE;S2NW;
023 S2NE;SE;
024 S2NW,W2SW;S2SW;SWSE;
025 SENE;W2NE,W2;SE;
026 SE;
028 E2SW;SE;
030 N2;W2SW;
031 LOTS 3,4;
031 S2NW,SE;

Natrona County
Casper FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
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 Casper Field Office GIS database; (3) protecting Class I and/or Class II Visual Resource Management Areas.

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 Casper Field Office GIS database; (3) protecting scenic values of the Oregon Trail.
protecting Bates Hole and Fish Creek/Willow Creek area Greater Sage-grouse nesting habitat.
CSU (1) Surface occupancy or use within 3 miles or visual horizon of the historic trail, whichever is closer, 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 cultural and scenic values of the Oregon Trail.

WY-184Q-S55  1560 Acres
T.0320N, R.0830W, 06th PM, WY Sec. 032 N2N2,SWNW;
033 NNNW,N2SE;
034 NE,NENW,S2NW,S2;
035 ALL;
Natrona County
Casper FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
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 Casper Field Office GIS database; (3) protecting Class I and/or Class II Visual Resource Management Areas.
CSU (1) Surface occupancy or use within greater than 10% sagebrush canopy cover 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 cultural and scenic values of the Oregon Trail.

WY-184Q-S59  1280 Acres
T.0320N, R.0830W, 06th PM, WY Sec. 032
S2NE,SENW,N2NW,SWSW,SE;
033 NE,NENW,S2NW,W2SW,SESW;
034 NWNW;
T.0330N, R.0840W, 06th PM, WY Sec. 025 NE,S2NW;
034 NNE,NENW;
035 N2NW;
Natrona County
Casper FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
CSU (1) Surface occupancy or use within greater than 10% sagebrush canopy cover 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 nesting Raptors.
NSO (1) As mapped on the Casper Field Office GIS database; (2) protecting Class I and Class II waters within 500 feet of Poison Spider Creek.
CSU (1) Surface occupancy or use within 3 miles or visual horizon of the historic trail, whichever is closer, 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 cultural and scenic values of the Bridger Trail.

WY-184Q-S61  2436.55 Acres
T.0330N, R.0830W, 06th PM, WY Sec. 003 SESW;
006 LOTS 3-7;
006 S2NE,SENW,E2SW,SE;
007 LOTS 1-3;
007 E2,E2W2;
008 W2;
009 NWNE;
011 N2NW,SENW,NWSE,SESE;
029 SENE,E2SW,SE;
031 LOTS 5-16;
Natrona County
Casper FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
CSU (1) Surface occupancy or use within greater than 10% sagebrush canopy cover 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 cultural and scenic values of the Oregon Trail.

WY-184Q-S60  2240 Acres
T.0330N, R.0830W, 06th PM, WY Sec. 003 W2SW;
004 SWNE,S2NW,S2;
005 SENE;
008 E2;
009 NENE,S2NE,NW,S2;
010 NWNW,S2NW,S2;
011 SWNW,SWSE;
CSU (1) Surface occupancy or use within 3 miles or visual horizon of the historic trail, whichever is closer, 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 cultural and scenic values of the Bridger Trail.

WSY-184Q-562  446.55 Acres
T.033ON, R.0830W, 06th PM, WY Sec. 004 LOTS 3,4; 005 LOTS 1-4; 006 LOTS 1,2; 010 N2NE,NENW; Natrona County Casper FO Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WSY_SML_TLS_PHMAL
WSY_SML_TLS_PHMAWCA
WSY_SML_PHMA
NSO (1) As mapped on the Casper Field Office GIS database; (2) protecting Class I and Class II waters within 500 feet of Poison Spider Creek. CSU (1) Surface occupancy or use within 0.25 miles or visual horizon of the historic trail, whichever is closer, 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 cultural and scenic values of the Bridger Trail.

WSY-184Q-564  1869.16 Acres
T.033ON, R.0830W, 06th PM, WY Sec. 014 N2N2,S2SE; 015 NWSE; 019 LOTS 1-4; 019 SENW,E2SW,SE; 029 N2NE,SINW,NW,W2SW; 030 LOTS 1-4; 030 E2,E2W2; 031 LOTS 1; 031 N2NE,NENW; Natrona County Casper FO Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WSY_SML_TLS_PHMAL
WSY_SML_TLS_PHMAWCA
WSY_SML_PHMA

WSY-184Q-565  947.11 Acres
T.033ON, R.0830W, 06th PM, WY Sec. 032 NW; 033 LOTS 1-4; 034 LOTS 1-3; 035 LOTS 1; 035 N2NW; Natrona County Casper FO Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WSY_SML_TLS_PHMAL
WSY_SML_TLS_PHMAWCA
WSY_SML_PHMA
CSU (1) Surface occupancy or use within 3 miles or visual horizon of the historic trail, whichever is closer, 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 cultural and scenic values of the Bridger Trail.

WSY-184Q-566  920 Acres
T.033ON, R.0830W, 06th PM, WY Sec. 033 NENE,W2E2,E2W2; 034 SENE,NESE; 035 NE,S2NW,SW,N2SE; Natrona County Casper FO Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WSY_SML_TLS_PHMAL
WSY_SML_TLS_PHMAWCA
WSY_SML_PHMA
CSU (1) Surface occupancy or use within 3 miles or visual horizon of the historic trail, whichever is closer, 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 cultural and scenic values of the Bridger Trail.

WSY-184Q-567  2356.53 Acres
T.034ON, R.0830W, 06th PM, WY
Sec. 001 LOTS 1,2;  
001 S2N2,S2S2,S2SE;  
002 SWNE,S2NW,SW,W2SE;  
003 SENE,E2SE;  
007 LOTS 4;  
007 SESW;  
008 SE;  
009 SWNW,W2SW;  
011 E2SE;  
012 NE,S2;  
013 NE,S2;  
Natrona County  
Casper FO  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
WY_SW_TLS_GHMAL  
WY_SW_TLS_PHMAWCA  
WY_SW_CSU_PHMA  
TLS   (1) Feb 1 to Jul 31; (2) as mapped on the Casper Field Office GIS database; (3) protecting nesting Raptors.  
TLS   (1) Nov 15 to Apr 30; (2) as mapped on the Casper Field Office GIS database; (3) protecting big game crucial winter range.  
WY-184Q-568 2317.34 Acres  
T.0340N, R.0830W, 06th PM, WY  
Sec. 001 LOTS 3,4;  
001 S2SW;  
002 LOTS 1-4;  
002 SENE,E2SE;  
003 LOTS 1,2;  
003 SWNE,SW,W2SE;  
008 S2NE,SENW,E2SW;  
009 SENW,NESE;  
010 E2,SESW;  
011 N2,SW,W2SE;  
012 NW;  
013 NW;  
Natrona County  
Casper FO  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
WY-184Q-569 1483.91 Acres  
T.0340N, R.0830W, 06th PM, WY  
Sec. 003 LOTS 3,4;  
003 S2NW;  
004 LOTS 1-4;  
004 S2N2,SW,N2SE;  
005 LOTS 1;  
005 S2N2;  
008 N2N2;  
009 N2NW;  
Natrona County  
Casper FO  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
WY-184Q-570 740.62 Acres  
T.0340N, R.0830W, 06th PM, WY  
Sec. 006 LOTS 1-7;  
006 S2NE,SENW,E2SW,SE;  
007 LOTS 1-3;  
007 LOTS 1-3;  
Natrona County  
Casper FO  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
WY-184Q-571 560 Acres  
T.0340N, R.0830W, 06th PM, WY  
Sec. 007 LOTS 1,2;  
008 E2,E2NW,NESE;  
008 SWNW,W2SW;  
Natrona County  
Casper FO  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
WY-184Q-572 1520 Acres  
T.0340N, R.0830W, 06th PM, WY  
Sec. 014 NE,SW;  
015 S2S2,NESE;  
022 NE,N2NW,SENW;  
023 SENE,W2NE,NW,NESW,S2SW;  
023 SE;  
026 N2NW;  
Natrona County  
Casper FO  
Stipulations:  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
WY-184Q-573 2422.64 Acres  
T.0340N, R.0830W, 06th PM, WY  
Sec. 014 NW,SE;  
015 N2,N2SW,NWSE;
018  E2,E2W2;
018  lots 3,4;
018  SNE,E2SW,W2SE;
019  lots 1-3;
019  E2NW,NESW,NESE,S2SE;
020  NE,E2NW,S2;
Natrona County
Casper FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Lease Notice No. 4
Lease Notice No. 5
Lease Notice No. 6
Lease Notice No. 7
Lease Notice No. 8
Lease Notice No. 9
Lease Notice No. 10
Stipulations:
Casper FO
Natrona County
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Lease Notice No. 4
Lease Notice No. 5
Lease Notice No. 6
Lease Notice No. 7
Lease Notice No. 8
Lease Notice No. 9
Lease Notice No. 10
Stipulations:
Casper FO
Natrona County
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Lease Notice No. 4
Lease Notice No. 5
Lease Notice No. 6
Lease Notice No. 7
Lease Notice No. 8
Lease Notice No. 9
Lease Notice No. 10
Stipulations:
Casper FO
Natrona County

CSU (1) Surface occupancy or use within 500 feet to 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 of the South Fork of Casper Creek.

WY-184Q-575  2320 Acres
T.0340N, R.0830W, 06th PM, WY
Sec. 021  N2N2,SWNW,S2;
022   NWSW,S2S2;
023   NENE;
024   N2NE,SWNE,W2,SE;
025   N2SE;
026   S2N2,S2;
Natrona County
Casper FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Lease Notice No. 4
Lease Notice No. 5
Lease Notice No. 6
Lease Notice No. 7
Lease Notice No. 8
Lease Notice No. 9
Lease Notice No. 10
Stipulations:
Casper FO
Natrona County
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Lease Notice No. 4
Lease Notice No. 5
Lease Notice No. 6
Lease Notice No. 7
Lease Notice No. 8
Lease Notice No. 9
Lease Notice No. 10
Stipulations:
Casper FO
Natrona County

CSU (1) Surface occupancy or use within 500 feet to 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 of the South Fork of Casper Creek.

WY-184Q-577  640 Acres
T.0340N, R.0830W, 06th PM, WY
Sec. 029  W2S2;
030   S2;
031   E2W2;
032   NW;
Natrona County
Casper FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Lease Notice No. 4
Lease Notice No. 5
Lease Notice No. 6
Lease Notice No. 7
Lease Notice No. 8
Lease Notice No. 9
Lease Notice No. 10
Stipulations:
Casper FO
Natrona County
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Lease Notice No. 4
Lease Notice No. 5
Lease Notice No. 6
Lease Notice No. 7
Lease Notice No. 8
Lease Notice No. 9
Lease Notice No. 10
Stipulations:
Casper FO
Natrona County

CSU (1) Surface occupancy or use within 500 feet to 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 of the South Fork of Casper Creek.

WY-184Q-576  2132.05 Acres
T.0340N, R.0830W, 06th PM, WY
Sec. 027  N2,W2SW,SE;
028   N2,N2S2;
029   N2ESE;
030   SLOTS 2-4;
031   SLOTS 1-4;

DOI-BLM-WY-0000-2018-0004-EA  5-112
database; (3) protecting cultural and scenic values of the Bridger Trail.

WY-184Q-578 840 Acres
T.0340N, R.0830W, 06th PM, WY
Sec. 029 E2SW,W2SE;
031 S2SE;
032 NE,S2;
033 SWNW,W2SW;
Natrona County
Casper FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA

CSU (1) Surface occupancy or use within 3 miles or visual horizon of the historic trail, whichever is closer, 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 cultural and scenic values of the Bridger Trail.

WY-184Q-580 520 Acres
T.0340N, R.0830W, 06th PM, WY
Sec. 034 SENE,NESE;
035 S2N2,N2SW,SESE,SE;
Natrona County
Casper FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA

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 Casper Field Office GIS database; (3) protecting Class I and/or Class II Visual Resource Management Areas.

WY-184Q-582 640 Acres
T.0320N, R.0840W, 06th PM, WY
Sec. 011 NESE,S2SE;
012 SWNW,W2SW;
013 W2NW,NWSW;
014 E2,E2SW,SESE;
017 NESW;
Natrona County
Casper FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA

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 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 Casper Field Office GIS database; (3) protecting Bates Hole and Fish Creek/Willow Creek area Greater Sage-grouse nesting habitat.

WY-184Q-583 2359.78 Acres
T.0320N, R.0840W, 06th PM, WY
Sec. 017 NW,W2SW;
018 LOTS 3,4;
018 E2E2,N2SE,SWSE;
019 LOTS 1;
019 NWNE;
020 NE,N2NW,SENW;
021 E2;
023 N2NE,NESS,E2SE;
025 N2NW,SE;
028 NE,S2;
029 E2E2;
Natrona County
Casper FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA

CSU (1) Surface occupancy or use within greater than 10% sagebrush canopy cover 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 nesting Raptors.
Creek/Willow Creek area Greater Sage-
protecting Bates Hole and Fish
the Casper Field Office GIS database; (3)
anticipated impacts; (2) as mapped on
acceptable plan for mitigation of
surface managing agency arrive at an
prohibited unless the operator and
canopy cover may be restricted or
within greater than 10% sagebrush
CSU   (1) Surface occupancy or use
within 500 feet to 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 Bates Hole and Fish
Creek/Willow Creek area Greater Sage-
grouse nesting habitat.

WY-184Q-S87  400 Acres
T.0330N, R.0840W, 06th PM, WY
Sec. 005  SWNW,S2S2;
006  S2SE;
026  NWSE;
035  W2NW;
Natrona County
Casper FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-S88  200 Acres
T.0330N, R.0840W, 06th PM, WY
Sec. 017  E2NE,N2SE,SWSE;
Natrona County
Casper FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

CSU   (1) Surface occupancy or use
within 500 feet to 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 of
Poison Spider Creek.
CSU (1) Surface occupancy or use within
3 miles or visual horizon of the historic
trail, whichever is closer, 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 cultural and
scenic values of the Bridger Trail.

WY-184Q-S89  160 Acres
T.0330N, R.0840W, 06th PM, WY
Sec. 017  W2NE;
026  N2SW;
Natrona County
Casper FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-S90  319.94 Acres
T.0340N, R.0840W, 06th PM, WY
Sec. 001  LOTS 1;
001  SENE,E2SE;
012  E2NE,SWNE,NESE;
Natrona County
Casper FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

DOI-BLM-WY-0000-2018-0004-EA    5-114
Office GIS database (2) protecting the NSO (1) as mapped on the Casper Field Office GIS database; (3) protecting nesting Raptors.

WY-184Q-591  1119.01 Acres
T.0340N, R.0840W, 06th PM, WY
Sec. 001  LOTS 2,3;
  001  SWNE,SENW,W2SE,W2SE;
  002  LOTS 1,2;
  003  SWSE,SENW,NESW,SE;
  012  NW,N2SW,SWSE;
Natrona County
Casper FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Casper FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY-184Q-593  120 Acres
T.0340N, R.0840W, 06th PM, WY
Sec. 011  SWSE;
  020  W2SE;
  021  NW,N2SW,SWSE;
  022  E2NE,NESE;
Natrona County
Casper FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Casper FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
NP-0044
WY-184Q-594  40 Acres
T.0340N, R.0840W, 06th PM, WY
Sec. 012  N2SE;
  023  N2SW,SWNW;
  024  SESE;
  025  N2NE,SWNE;
Natrona County
Casper FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
NP-0044
WY-184Q-595  1080 Acres
T.0340N, R.0840W, 06th PM, WY
Sec. 012  N2SE;
  013  N2SW,SWNW;
  014  SESE;
  015  N2NE,SWNE;
Natrona County
Casper FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
NP-0044
### Stipulations:

- **Lease Notice No. 1**
- **Lease Notice No. 2**
- **Lease Notice No. 3**
- **Lease Stipulation No. 1**
- **Lease Stipulation No. 2**
- **Lease Stipulation No. 3**
- **WY_SW_NC_SPSR_PHMA**
- **WY_SW_TLS_PHMA**
- **WY_SW_TLS_PHMAWCA**
- **WY_SW_TLS_PHMAL**

**CSU (1)** Surface occupancy or use within 500 feet to 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 of Poison Spider Creek.

**CSU (1)** Surface occupancy or use within 3 miles or visual horizon of the historic trail, whichever is closer, 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 cultural and scenic values of the Bridger Trail.

**CSU (1)** Surface occupancy or use within 0.25 miles or visual horizon of the historic trail, whichever is closer, 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 cultural and scenic values of the Bridger Trail.

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### Lease Stipulation No. 1

**WY-184Q-598** 40 Acres  
T.0330N, R.0850W, 06th PM, WY  
Sec. 013 SWSE;  
Natrona County  
Casper FO  
**Stipulations:**  
- **Lease Notice No. 1**  
- **Lease Notice No. 2**  
- **Lease Notice No. 3**  
- **Lease Stipulation No. 1**  
- **Lease Stipulation No. 2**  
- **Lease Stipulation No. 3**  
- **WY_SW_TLS_PHMAL**  
- **WY_SW_TLS_PHMAWCA**  
- **WY_SW_CSU_PHMA**  
- **WY_SW_NC_SPSR_PHMA**  

CSU (1) Surface occupancy or use within 500 feet to 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 of Poison Spider Creek.

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### Lease Stipulation No. 2

**WY-184Q-597** 360 Acres  
T.0330N, R.0850W, 06th PM, WY  
Sec. 012 S2NE; 013 N2NE; 015 W2NW,SENW,N2SW;  
Natrona County  
Casper FO  
**Stipulations:**  
- **Lease Notice No. 1**  
- **Lease Notice No. 2**  
- **Lease Notice No. 3**  
- **Lease Stipulation No. 1**  
- **Lease Stipulation No. 2**  
- **Lease Stipulation No. 3**  
- **WY_SW_TLS_PHMAL**  
- **WY_SW_TLS_PHMAWCA**  
- **WY_SW_CSU_PHMA**  

CSU (1) Surface occupancy or use within 0.25 miles or visual horizon of the historic trail, whichever is closer, 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 cultural and scenic values of the Bridger Trail.

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### Lease Stipulation No. 3

**WY-184Q-599** 480.00 Acres  
T.0260N, R.0870W, 06th PM, WY  
Sec. 026 S2; 035 NE;  
Carbon County  
Rawlins FO  
**Stipulations:**  
- **Lease Notice No. 1**  
- **Lease Notice No. 2**  
- **Lease Notice No. 3**  
- **Lease Stipulation No. 1**  
- **Lease Stipulation No. 2**  
- **Lease Stipulation No. 3**  
- **WY_SW_TLS_PHMAL**  
- **WY_SW_TLS_PHMAWCA**  
- **WY_SW_CSU_PHMA**  

CSU (1) Surface occupancy or use within 500 feet to 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 of Poison Spider Creek.

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### Lease Notice No. 1

**WY-184Q-600** 316.12 Acres  
T.0350N, R.0870W, 06th PM, WY  
Sec. 030 LOTS 1-4; 030 E2W2;  
Natrona County  
Casper FO  
**Stipulations:**  
- **Lease Notice No. 1**  
- **Lease Notice No. 2**  
- **Lease Notice No. 3**  
- **Lease Stipulation No. 1**  
- **Lease Stipulation No. 2**  
- **Lease Stipulation No. 3**  
- **WY_SW_NC_SPSR_PHMA**  
- **WY_SW_TLS_PHMAL**  
- **WY_SW_TLS_PHMAWCA**  
- **WY_SW_CSU_PHMA**  

CSU (1) Surface occupancy or use within 2 miles or visual horizon of the historic trail, whichever is closer, 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 cultural and scenic values of the Bridger Trail.

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### Lease Notice No. 2

**WY-184Q-601** 1437.15 Acres  
T.0340N, R.0880W, 06th PM, WY  
Sec. 001 LOTS 4; 001 SWNW,W2SW; 002 LOTS 1-4; 002 S2N2,S2; 003 LOTS 1-4; 003 S2N2,S2;  
Natrona County  
Casper FO  
**Stipulations:**  
- **Lease Notice No. 1**  
- **Lease Notice No. 2**  
- **Lease Notice No. 3**  
- **Lease Stipulation No. 1**  
- **Lease Stipulation No. 2**  
- **Lease Stipulation No. 3**  
- **WY_SW_TLS_PHMAL**  
- **WY_SW_TLS_PHMAWCA**  
- **WY_SW_CSU_PHMA**  

CSU (1) Surface occupancy or use within 0.25 miles or visual horizon of the historic trail, whichever is closer, 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/or Class II Visual Resource Management Areas.

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### Lease Notice No. 3

**WY-184Q-602** 880 Acres  
T.0350N, R.0880W, 06th PM, WY  
Sec. 023 NE; 024 NENE,SESE; 025 E2NE,W2,SE; 026 S2SE;  
Natrona County  
Casper FO  
**Stipulations:**  
- **Lease Notice No. 1**
T.0150N, R.0910W, 06th PM, WY Sec. 010 E2; 011
W2W2NW/4NW, SW/NW, SW/SE/4NW; 011
W2NWSE/4SW, W2NWSWSE/4SW; 011
W2NWSE/4SW, W2NWSWSE/4SW, W2SW; 011
NWS/4SE, W2SWSE/4SE, S/4SE; Carbon County
Rawlins FO

Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA

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

Special Lease Notice: This parcel is located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridor functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1

T.0150N, R.0910W, 06th PM, WY Sec. 011 SENW, SESE;

Lease No. 034 ALL;
Sweetwater County
Rawlins FO

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

WY-184Q-605 1247.2 Acres
T.0200N, R.0910W, 06th PM, WY Sec. 030 LOTS 1-4; 030 E2,E2W2; 034 ALL;

Casper County
Sweetwater FO

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

WY-184Q-606 80 Acres
T.0490N, R.0910W, 06th PM, WY Sec. 027 W2NW;
Big Horn County
Worland FO

Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Lease Notice 1041

WY-184Q-607 120 Acres
T.0490N, R.0910W, 06th PM, WY Sec. 027 SENW,W2SE;
Big Horn County
Worland FO

and gas leasing per Dec 2008 Rawlins
RMP pg. 2-34.
T.0150N, R.0910W, 06th PM, WY Sec. 011 SENW, SESE;

DOI-BLM-WY-0000-2018-0004-EA 5-117
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Lease Notice 1041

WY-184Q-608 40 Acres
T.0470N, R.0920W, 06th PM, WY
Sec. 023 NENE;
Big Horn County
Worland FO
Lease Notice 1041
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-609 120 Acres
T.0470N, R.0920W, 06th PM, WY
Sec. 027 NESE, S2SE;
Washakie County
Worland FO
Lease Notice 1041
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
NSO (1) within 500 feet of perennial
surface water, riparian/wetland areas,
and playas; (2) as mapped on the
Worland Field Office GIS database;
TLS (1) No surface use is allowed within
1/4 mile of active raptor nests and 1/2
mile of active golden eagle, bald eagle,
northern goshawk, merlin, and prairie
and peregrine falcon nests and 1 mile of
active ferruginous hawk nests during
specific species nesting period or until
young birds have fledged. Timing
Limitation Stipulation during the
following time periods: American
Kestrel Apr 1 to Aug 15, Bald Eagle Jan
1 to Aug 15, Boreal Owl Feb 1 to Jul 31,
Burrowing Owl Apr 1 to Sept 15,
Common Barn Owl Feb 1 – Sept 15,
Cooper’s Hawk Mar 15 to Aug 31,
Eastern Screech-owl Mar 1 to Aug 15,
Ferruginous Hawk Mar 15 to Jul 31,
Golden Eagle Jan 15 to Jul 31, Great
Gray Owl Mar 15 to Aug 31, Great
Horned Owl Dec 1 to Sept 31, Long-
eared Owl Feb 1 to Aug 15, Merlin Apr
1 to Aug 15, Northern Goshawk Apr 1 to
Aug 15, Northern Harrier Apr 1 to Aug
15, Northern Pygmy-Owl Apr 1 to Aug
1, Northern Saw-whet Owl Mar 1 to Aug
31, Osprey Apr 1 to Aug 31, Peregrine
Falcons Mar 1 to Aug 15, Prairie Falcon
Mar 1 to Aug 15, Red-tailed Hawk Feb
1 to Aug 15, Sharp-shinned Hawk Mar
15 to Aug 31, Short-eared Owl Mar 15 to
Aug 1, Swainson’s Hawk Apr 1 to Aug
31, Western Screech-owl Mar 1 to Aug
15, All other raptors Feb 1 to Jul 31, (2)
as mapped on the Worland Field Office
GIS database, or determined by field
evaluation; (3) protecting raptor nests
CSU (1) Surface occupancy or use
within 1/4 mile of raptor nest sites will
be restricted. Prior to surface
disturbance within 1/4 mile of raptor
nests a mitigation plan must be
submitted to the BLM by the applicant
as a component of the Application for
Permit to Drill (BLM Form 3160-3) or
Sundry Notice (BLM Form 3160-5) –
Surface Use Plan of Operations. The
operator may not initiate surface-
disturbing activities unless the BLM
authorized officer has approved the
plan or approved it with conditions. The
plan must demonstrate to the BLM
authorized officer’s satisfaction that
nesting raptors of conservation concern
would not be agitated or bothered to a
degree that causes or is likely to cause:
physical injury; a decrease in
productivity, by substantially interfering
with normal breeding, feeding, or
sheltering behavior; or nest
abandonment, by substantially
interfering with normal breeding,
feeding, or sheltering behavior, or
preclude nest reoccupation,(2) as
mapped on the Worland Field Office GIS
database, or determined by BLM field
evaluation; (3) protecting raptor nest
sites.

WY-184Q-611 807.83 Acres
T.0520N, R.0920W, 06th PM, WY
Sec. 027 SESW, S2SE;
034 LOTS 1, 2;
034 NE, E2NW;
034 38C, 38D, 65C; 65D;
035 LOTS 4, 5;
035 NW;
035 38B, 38C, 64A, 65A, 65B, 65C;
Big Horn County
Worland FO
Lease Notice 1041
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-612 271.4 Acres
T.0470N, R.0922W, 06th PM, WY
Sec. 001 LOTS 2, 3;
Washakie County
Worland FO
Lease Notice 1041
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-613 32.7 Acres
T.0510N, R.0920W, 06th PM, WY
Sec. 012 LOTS 1;
Washakie County
Worland FO
Lease Notice 1041
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

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

Lease Notice 1041

WY-184Q-615 608.8 Acres
T.0510N, R.0920W, 06th PM, WY
Sec. 013 LOTS 3, 4;
013 60F, 60G, 60H, 60I, 60J, 60K;
013 60N, 60O, 60P;
014 58D, 60F, 60G, 60H, 60I, 60K, 60L, 60M;
014 60N;
023 58D;
Big Horn County
Worland FO
Lease Notice 1041
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
<table>
<thead>
<tr>
<th>Parcel</th>
<th>Acres</th>
<th>Description</th>
</tr>
</thead>
</table>
| WY-184Q-614 | 800.8 | SWNW,SW,S2SE; Washakie County  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
Lease Notice 1041  
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Worland Field Office GIS database; (3) protecting big game crucial winter range habitat. |
| WY-184Q-615 | 560 | LOTS 5-8; Washakie County  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
Lease Notice 1041  
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Worland Field Office GIS database; (3) protecting big game crucial winter range habitat. |
| WY-184Q-616 | 960 | LOTS 5-8; Washakie County  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
Lease Notice 1041  
NSO (1) within 500 feet as mapped on the Worland Field Office GIS database; (2) protecting perennial surface water, riparian/wetland areas, and playas.  
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Worland Field Office GIS database; (3) protecting big game crucial winter range habitat. |
| WY-184Q-617 | 409.45 | LOTS 1-4; Washakie County  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
Lease Notice 1041  
CSU (1) Prior to surface disturbance within 3-mile or the visual horizon of important cultural sites, whichever is closer, a site-specific plan must be submitted to the BLM by the applicant as a component of the Application for Permit to Drill or Sundry Notice.  
Worland Field Office GIS database; (3) protecting cultural and scenic values of important cultural sites. |
| WY-184Q-618 | 319.93 | LOTS 1-2; Big Horn County  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice 1041  
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Worland Field Office GIS database; (3) protecting big game crucial winter range habitat. |
| WY-184Q-619 | 160.3 | LOTS 1-2; Big Horn County  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice No. 3  
Lease Stipulation No. 1  
Lease Stipulation No. 2  
Lease Stipulation No. 3  
Lease Notice 1041  
WS_TLS_GHMA  
Worland FO  
CSU (1) Prior to surface disturbance within 3-mile or the visual horizon of important cultural sites, whichever is closer, a site-specific plan must be submitted to the BLM by the applicant as a component of the Application for Permit to Drill or Sundry Notice.  
Worland Field Office GIS database; (3) protecting cultural and scenic values of important cultural sites. |
| WY-184Q-620 | 357.65 | LOTS 1-2; Big Horn County  
Lease Notice No. 1  
Lease Notice No. 2  
Lease Notice 1041  
WS_TLS_GHMA  
Worland FO  
CSU (1) Prior to surface disturbance within 3-mile or the visual horizon of important cultural sites, whichever is closer, a site-specific plan must be submitted to the BLM by the applicant as a component of the Application for Permit to Drill or Sundry Notice.  
Worland Field Office GIS database; (3) protecting cultural and scenic values of important cultural sites. |
WY-184Q-624 40 Acres T.0490N, R.0930W, 06th PM, WY Sec. 024 NWNW; Big Horn County Worland FO Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 TLS (1) Nov 15 to Apr 30; (2) as mapped on the Worland Field Office GIS database; (3) protecting big game crucial winter range habitat.

WY-184Q-625 640.6 Acres T.0490N, R.0930W, 06th PM, WY Sec. 030 1-4; 030 E2,E2W2; Big Horn County Worland FO Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 Lease Stipulation No. 4 Lease Notice 1041 TLS (1) No surface use is allowed during the following time periods. Timing Limitation Stipulation (TLS) Nov 15 to Apr 30; (2) as mapped on the Worland Field Office GIS database (3) protecting big game on crucial winter range.

WY-184Q-626 480 Acres T.0500N, R.0930W, 06th PM, WY Sec. 028 SW; 029 NWSE; 033 W2NE,NENW,SW; Big Horn County Worland FO Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 Lease Notice 1041 CSU (1) Prior to surface disturbance within 3-mile or the visual horizon of important cultural sites, whichever is closer, a site-specific plan must be submitted to the BLM by the applicant as a component of the Application for Permit to Drill (BLM Form 3160-3) or Sundry Notice (BLM Form 3160-5) – Surface Use Plan of Operations. The Plan must include designs approved and stamped by a licensed engineer. The operator shall not initiate surface-disturbing activities unless the BLM authorized officer has approved the Plan (with conditions, as appropriate). CSU (2) as mapped on the Worland Field Office GIS database; (3) protecting recreational setting, LRP soils, and geologic features within the Fifteen Mile MLP Analysis Area.

WY-184Q-627 160 Acres T.0490N, R.0930W, 06th PM, WY Sec. 015 SE; Big Horn County Worland FO Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 Lease Notice 1041 TLS (1) Nov 15 to Apr 30; (2) as mapped on the Worland Field Office GIS database; (3) protecting big game crucial winter range habitat.

WY-184Q-628 1040 Acres T.0490N, R.0930W, 06th PM, WY Sec. 021, N2,N2SE; 023 ALL; Big Horn County Worland FO Stipulations: Lease Notice No. 1 Lease Notice No. 2 Lease Notice No. 3 Lease Stipulation No. 1 Lease Stipulation No. 2 Lease Stipulation No. 3 Lease Notice 1041 NSO (1) within 500 feet as mapped on the Worland Field Office GIS database; (2) protecting perennial surface water, riparian/wetland areas, and playas.

specific construction, stabilization, and reclamation plan (Plan) must be submitted to the BLM by the applicant as a component of the APD (BLM Form 3160-3) or Sundry Notice (BLM Form 3160-5) – Surface Use Plan of Operations. The Plan must include designs approved and stamped by a licensed engineer. The operator shall not initiate surface-disturbing activities unless the BLM authorized officer has approved the Plan (with conditions, as appropriate). CSU (1) prior to surface disturbance on limited reclamation potential areas a site-
Lease Stipulation No. 3
Lease Notice 1041
NSO (1) within 500 feet of perennial surface water, riparian/wetland areas, and playas; (2) as mapped on the Worland Field Office GIS database.
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 Worland Field Office GIS database; (3) protecting other historic trails.

WY-184Q-627  555.2 Acres
T.0500N, R.0930W, 06th PM, WY
Sec. 031 LOTS 1-4;
031 W2NE,E2W2,SE;
Big Horn County
Worland FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Lease Notice 1041
WY_SW_TLS_GHMAL
NSO (1) within 500 feet of perennial surface water, riparian/wetland areas, and playas; (2) as mapped on the Worland Field Office GIS database.

WY-184Q-628  480 Acres
T.0500N, R.0930W, 06th PM, WY
Sec. 032 N2,SE;
Big Horn County
Worland FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Lease Notice 1041
WY_SW_TLS_GHMAL

WY-184Q-630  320 Acres
T.0160N, R.0940W, 06th PM, WY
Sec. 023 W2;
Sweetwater County
Rawlins FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
TLS (1) Apr 1 to Jul 31; (2) as mapped on the Rawlins Field Office GIS database; (3) protecting nesting Mountain plover.

WY-184Q-631  2496.07 Acres
T.0230N, R.0940W, 06th PM, WY
Sec. 003 LOTS 5-17;
003 THAT PT OF MS 742 LYING
003 WITHIN THE E2,E2NW,NESW;
004 LOTS 5-7,9-20;
009 LOTS 1-16;
010 LOTS 1-12;
010 THAT PT OF MS 742 LYING
010 WITHIN THE E2;
Sweetwater County
Rawlins FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
TLS (1) Apr 10 to Jul 10 (2) as mapped on the Rawlins Field Office GIS database; (3) protecting raptor nesting habitat.

WY-184Q-632  640 Acres
T.0189N, R.0960W, 06th PM, WY
Sec. 014 ALL;
Sweetwater County
Rawlins FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
TLS (1) Apr 10 to Jul 10 (2) as mapped on the Rawlins Field Office GIS database; (3) protecting nesting Mountain plover.

T.0200N, R.0960W, 06th PM, WY
WY-184Q-633 966.35 Acres

Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHML
TLS (1) Apr 10 to Jul 10 (2) as mapped on the Rawlins Field Office GIS database; (3) protecting nesting Mountain plover.

WY-184Q-636 2560 Acres
T.0210N, R.0960W, 06th PM, WY

Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
TLS (1) Apr 10 to Jul 10 (2) as mapped on the Rawlins Field Office GIS database; (3) protecting nesting Mountain plover.

DOI-BLM-WY-0000-2018-0004-EA 5-122
active ferruginous hawk nests during specific species nesting period or until young birds have fledged. This stipulation does not apply to operation and maintenance of production facilities. Timing Limitation Stipulation during the following time periods:
American Kestrel Apr 1 to Aug 15, Bald Eagle Jan 1 to Aug 15, Boreal Owl Feb 1 to Jul 31, Burrowing Owl Apr 1 to Sep 15, Cooper’s Hawk Mar 15 to Aug 31, Eastern Screech-owl Mar 1 to Aug 15, Ferruginous Hawk Mar 15 to Jul 31, Golden Eagle Jan 15 to Jul 31, Great Horned Owl Dec 1 to Sep 31, Long-eared Owl Feb 1 to Aug 15, Northern Harrier Apr 1 to Aug 15, Northern Pygmy-Owl Apr 1 to Aug 1, Northern Saw-whet Owl Mar 1 to Aug 31, Osprey Apr 1 to Aug 31, Peregrine Falcon Mar 1 to Aug 15, Prairie Falcon Mar 1 to Aug 15, Red-tailed Hawk Feb 1 to Aug 15, Sharp-shinned Hawk Mar 15 to Aug 31, Short-eared Owl Mar 15 to Aug 1, Swainson’s Hawk Apr 1 to Aug 31, Western Screech-owl Mar 1 to Aug 15, all other raptors Feb 1 to Jul 31, (2) as mapped on the Worland Field Office GIS database or as determined by field evaluation; (3) protecting active raptor nests
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 Worland Field Office GIS database; (3) protecting raptor nesting habitat.
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 Worland Field Office GIS database; (3) protecting raptor nesting habitat.
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 Worland Field Office GIS database; (3) protecting raptor nesting habitat.
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 Worland Field Office GIS database; (3) protecting raptor nesting habitat.
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 Worland Field Office GIS database; (3) protecting raptor nesting habitat.
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 Worland Field Office GIS database; (3) protecting raptor nesting habitat.
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 Worland Field Office GIS database; (3) protecting raptor nesting habitat.
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 Worland Field Office GIS database; (3) protecting raptor nesting habitat.
DOI-BLM-WY-0000-2018-0004-EA  5-124

Sweetwater County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

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

WY-184Q-644  2552.19 Acres
T.0220N, R.1000W, 06th PM, WY
Sec. 002  LOTS 5-8;
  002  S2N2,52;
  004  LOTS S-8;
  004  S2N2,52;
  006  LOTS S-14;
  006  S2NE,SENW,E2SW,SE;
  008  ALL;
Sweetwater County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Feb 1 to July 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.

WY-184Q-645  2560 Acres
T.0220N, R.1000W, 06th PM, WY
Sec. 010  ALL;
Sec. 012  ALL;
Sec. 014  ALL;
Sec. 024  ALL;
Sweetwater County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
WSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting raptor nesting habitat.
TLS (1) Feb 1 to July 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.

WY-184Q-646  634.36 Acres
T.0220N, R.1000W, 06th PM, WY
Sec. 018  LOTS 5-8;
  018  E2,E2W2;
Sweetwater County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
TLS (1) Feb 1 to July 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.

WY-184Q-647  79 Acres
T.0180N, R.1010W, 06th PM, WY
Sec. 018  SWNE,NWSE (EXCL 1.00 AC IN RSR ROW WYW131147);
Sweetwater County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
CSU (1) Surface occupancy or use within 1/4 mile or visual horizon of the trail, whichever is closer, 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 Rock Springs Field Office GIS database; (3) protecting cultural and scenic values of the Overland Trail.

WY-184Q-648  68.53 Acres
T.0200N, R.1010W, 06th PM, WY
Sec. 034  NENE,SESE (EXCL 11.47 AC IN RR ROW UNDER ACT OF 3/3/1875);
Sweetwater County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
TLS (1) Feb 1 to July 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.

WY-184Q-649  2231.47 Acres
T.0220N, R.1010W, 06th PM, WY
Sec. 024  LOTS 1,6-9,14,15;
Raptors.

database; (3) protecting nesting on the Rock Springs Field Office GIS database; (2) protecting big game GIS database; (3) protecting cultural and scenic values of the Point of Rocks to South Pass road.

Leasing Area is closed to new oil and gas leasing per 1997 Green River RMP pg. 12.

T.0230N, R.1010W, 06th PM, WY Sec. 001 N2SW, NWSE Sec. 002 N2SE, SWSW Sec. 003 ALL Sec. 004 ALL Sec. 005 ALL

Sweetwater County
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

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

CSU (1) Surface occupancy or use within 1/4 mile or visual horizon of the trail, whichever is closer, 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 Rock Springs Field Office GIS database; (3) protecting cultural and scenic values of the Point of Rocks to South Pass road.

T.0230N, R.1010W, 06th PM, WY Sec. 012 ALL; Sec. 013 NS2N; Sec. 014 ALL; Sec. 015 NS2N; Sec. 018 LOTS 1-4; Sec. 018 E2,E2W2; Sec. 034 E2NE,E2NW;

Sweetwater County
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

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

CSU (1) Surface occupancy or use within 1/4 mile or visual horizon of the trail, whichever is closer, 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 Rock Springs Field Office GIS database; (3) protecting cultural and scenic values of the Point of Rocks to South Pass road.

T.0230N, R.1010W, 06th PM, WY Sec. 020 ALL; Sec. 028 ALL; Sec. 030 LOTS 1-4; Sec. 030 E2,E2W2; Sec. 032 ALL;

Sweetwater County
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

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

CSU (1) Surface occupancy or use within 1/4 mile or visual horizon of the trail, whichever is closer, 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 Rock Springs Field Office GIS database; (3) protecting cultural and scenic values of the Point of Rocks to South Pass road.

T.0230N, R.1010W, 06th PM, WY Sec. 032 ALL; Sec. 034 E2NE,E2NW;

Sweetwater County
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

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

CSU (1) Surface occupancy or use within 1/4 mile or visual horizon of the trail, whichever is closer, 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 Rock Springs Field Office GIS database; (3) protecting cultural and scenic values of the Point of Rocks to South Pass road.

T.0230N, R.1010W, 06th PM, WY Sec. 032 ALL; Sec. 034 E2NE,E2NW;

Sweetwater County
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

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

CSU (1) Surface occupancy or use within 1/4 mile or visual horizon of the trail, whichever is closer, 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 Rock Springs Field Office GIS database; (3) protecting cultural and scenic values of the Point of Rocks to South Pass road.

T.0230N, R.1010W, 06th PM, WY Sec. 032 ALL; Sec. 034 E2NE,E2NW;

Sweetwater County
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

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

CSU (1) Surface occupancy or use within 1/4 mile or visual horizon of the trail, whichever is closer, 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 Rock Springs Field Office GIS database; (3) protecting cultural and scenic values of the Point of Rocks to South Pass road.

T.0230N, R.1010W, 06th PM, WY Sec. 032 ALL; Sec. 034 E2NE,E2NW;

Sweetwater County
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

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

CSU (1) Surface occupancy or use within 1/4 mile or visual horizon of the trail, whichever is closer, 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 Rock Springs Field Office GIS database; (3) protecting cultural and scenic values of the Point of Rocks to South Pass road.

T.0230N, R.1010W, 06th PM, WY Sec. 032 ALL; Sec. 034 E2NE,E2NW;

Sweetwater County
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

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

CSU (1) Surface occupancy or use within 1/4 mile or visual horizon of the trail, whichever is closer, 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 Rock Springs Field Office GIS database; (3) protecting cultural and scenic values of the Point of Rocks to South Pass road.

T.0230N, R.1010W, 06th PM, WY Sec. 032 ALL; Sec. 034 E2NE,E2NW;
arrive at an acceptable plan for mitigation of anticipated impacts; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting cultural and scenic values of the Point of Rocks to South Pass road.

WY-184Q-654 1400 Acres
T.0120N, R.1020W, 06th PM, WY
Sec. 001 SWNE,W2;
002 N2,S2SE;
011 S2SW,N2SE;
014 SENE,W2NE,W2;
015 NENE;
Sweetwater County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Wyoming SW CSU PHMA
Wyoming SW TLS PHMA
WY-184Q-655 614.43 Acres
T.0190N, R.1020W, 06th PM, WY
Sec. 001 LOTS 1-4;
002 S2N2,S2;
002 S2N2,S2;
002 S2;
002 IN RR ROW UNDER ACT OF 03/3/1875;
Sweetwater County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Wyoming SW TLS PHMA
Wyoming SW TLS PHMAL
Wyoming SW TLS GHMAL
Wyoming SW CSU PHMA
Wyoming NSO PHMAL
Sweetwater County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Wyoming SW CSU PHMA
Wyoming SW TLS PHMA
Wyoming SW TLS PHMAL
Wyoming SW TLS GHMAL
Wyoming NSO PHMAL

12. leasing per 1997 Green River RMP pg. 12.

WY-184Q-657 2461.21 Acres
T.0230N, R.1020W, 06th PM, WY
Sec. 001 LOTS 1-4;
002 S2N2,SW;
002 S2N2,SW;
002 S2N2,SW;
002 IN RR ROW UNDER ACT OF 03/3/1875;
Sweetwater County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Wyoming SW CSU PHMA
Wyoming SW TLS PHMA
Wyoming SW TLS PHMAL
Wyoming SW TLS GHMAL
Wyoming NSO PHMAL

*DELETE ALL (2160 acres). Parcel 658 is within a No Leasing Area. This No Leasing Area is closed to new oil and gas leasing per 1997 Green River RMP pg. 12.

WY-184Q-658 2503.14 Acres
T.0230N, R.1020W, 06th PM, WY
Sec. 001 ALL;
011 ALL;
012 ALL;
013 N2NW;
015 N2N;
Sweetwater County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Wyoming SW CSU PHMA
Wyoming SW TLS PHMA
Wyoming SW TLS PHMAL
Wyoming SW TLS GHMAL
Wyoming NSO PHMAL

*DELETE ALL (2503.14 acres). Parcel 658 is within a No Leasing Area. This No Leasing Area is closed to new oil and gas leasing per 1997 Green River RMP pg. 12.

WY-184Q-659 2160 Acres
T.0230N, R.1020W, 06th PM, WY
Sec. 010 ALL;
011 ALL;
012 ALL;
013 N2NW;
015 N2N;
Sweetwater County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Wyoming SW CSU PHMA
Wyoming SW TLS PHMA
Wyoming SW TLS PHMAL
Wyoming SW TLS GHMAL
Wyoming NSO PHMAL

*DELETE ALL (2160 acres). Parcel 659 is within a No Leasing Area. This No Leasing Area is closed to new oil and gas leasing per 1997 Green River RMP pg. 12.

WY-184Q-660 2216.88 Acres
T.0230N, R.1020W, 06th PM, WY
Sec. 014 ALL;
017 N2NW,N2SW;
018 LOTS 1-4;
018 E2,E2W2;
020 ALL;
Sweetwater County
Rock Springs FO
Stipulations:
Special Lease Notice: This parcel is located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridor functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1.

TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range. *DELETE IN PART (2040 acres). The following portions of Parcel 662 are within a No Leasing Area. This No Leasing Area is closed to new oil and gas leasing per 1997 Green River RMP pg. 12.

T.0230N, R.1020W, 06th PM, WY Sec. 022 ALL; Sec. 024 ALL; Sec. 026 ALL; Sec. 028 ALL;

WY-184Q-662 1902 Acres
T.0230N, R.1020W, 06th PM, WY Sec. 020 ALL; Sec. 022 ALL; Sec. 024 ALL; Sec. 026 ALL; Sec. 028 ALL;

Sweetwater County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSR_PHMA

Special Lease Notice: This parcel is located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridor functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1.

TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range. *DELETE IN PART (1120 acres). The following portions of Parcel 662 are within a No Leasing Area. This No Leasing Area is closed to new oil and gas leasing per 1997 Green River RMP pg. 12.

T.0230N, R.1020W, 06th PM, WY Sec. 030 ALL
Sec. 032 N2N2
Sec. 034 N2

WY-184Q-663 600.6 Acres
T.0190N, R.1030W, 06th PM, WY Sec. 018 LOTS 1,2,4;
Sec. 018 N2N2,N2SW,N2SE;
Sec. 018 LOT 3,S2NE,SE;
Sec. 018 UNDER ACT OF 3/3/1875;

Sweetwater County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

T.0230N, R.1020W, 06th PM, WY Sec. 020 ALL;
Sec. 022 ALL;
Sec. 024 ALL;
Sec. 026 ALL;
Sec. 028 ALL;

WY-184Q-664 1925.04 Acres
T.0230N, R.1030W, 06th PM, WY Sec. 001 LOTS 1-4;
Sec. 002 LOTS 1-4;
Sec. 002 LOTS 1-4;
Sec. 002 LOTS 1-4;
Sec. 002 LOTS 1-4;
Sec. 002 LOTS 1-4;

Sweetwater County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-665 2560 Acres
T.0230N, R.1020W, 06th PM, WY Sec. 017 NW, N2SW, N2SE;
Sec. 018 ALL
Sec. 020 ALL

Sweetwater County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-666 1902 Acres
T.0230N, R.1020W, 06th PM, WY Sec. 030 E2,E2W2;
030 ALL;
034 ALL;

Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSR_PHMA

Special Lease Notice: This parcel is located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridor functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1.

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

WY-184Q-667 600.6 Acres
T.0190N, R.1030W, 06th PM, WY Sec. 018 LOTS 1-4;
Sec. 018 N2N2,N2SW,N2SE;
Sec. 018 LOT 3,S2NE,SE;
Sec. 018 UNDER ACT OF 3/3/1875;

Sweetwater County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-668 1925.04 Acres
T.0230N, R.1030W, 06th PM, WY Sec. 001 LOTS 1-4;
Sec. 002 LOTS 1-4;
Sec. 002 LOTS 1-4;
Sec. 002 LOTS 1-4;
Sec. 002 LOTS 1-4;
Sec. 002 LOTS 1-4;

Sweetwater County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
*DELETE ALL (1925.04 acres). Parcel 664 is within a No Leasing Area. This No Leasing Area is closed to new oil and gas leasing per 1997 Green River RMP pg. 12.

WY-184Q-665 1924 Acres
T.0230N, R.1030W, 06th PM, WY
Sec. 004 LOTS 1-4;
004 S2N2,S2;
005 LOTS 1-4;
005 S2N2,S2;
010 ALL;
Sweetwater County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
Special Lease Notice: This parcel is located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridor functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
TLS (1) May 1 to June 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game partition areas.
*DELETE IN PART (1280 acres). The following portions of Parcel 665 are within a No Leasing Area. This No Leasing Area is closed to new oil and gas leasing per 1997 Green River RMP pg. 12.
T.0230N, R.1030W, 06th PM, WY
Sec. 004 ALL
Sec. 010 ALL

WY-184Q-666 2480 Acres
T.0230N, R.1030W, 06th PM, WY
Sec. 011 ALL;
012 ALL;
013 N2,SW,N2SE;
014 ALL;
Sweetwater County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
*DELETE ALL (2480 acres). Parcel 666 is within a No Leasing Area. This No Leasing Area is closed to new oil and gas leasing per 1997 Green River RMP pg. 12.

WY-184Q-667 1840 Acres
T.0230N, R.1030W, 06th PM, WY
Sec. 015 E2;
023 N2N2,SWNW,NWSW;
024 ALL;
026 ALL;
Sweetwater County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
Special Lease Notice: This parcel is located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridor functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting active raptor nests.
TLS (1) Feb 1 to July 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.

Leasing Area is closed to new oil and gas leasing per 1997 Green River RMP pg. 12.
T.0230N, R.1030W, 06th PM, WY
Sec. 015 E2
Sec. 023 N2N2, SWNW
Sec. 024 ALL
Sec. 026 E2NE, NESE

WY-184Q-668 2304.95 Acres
T.0270N, R.1030W, 06th PM, WY
Sec. 003 LOTS 1-4;
003 S2N2,S2;
004 LOTS 3-6;
004 SWNW,S2;
005 LOTS 1-4;
005 S2N2,S2;
006 LOTS 1-7;
006 S2NE,SENW,E2SW,SE;
Sublette County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
Special Lease Notice: This parcel is located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridor functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1

WY-184Q-669 2553.68 Acres
T.0270N, R.1030W, 06th PM, WY
Sec. 007 LOTS 1-4;
007 E2,E2W2;
located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridor functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1 TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.

CSU (1) Surface occupancy or use within 1/4 mile or visual horizon of the trail, whichever is closer, 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 Rock Springs Field Office GIS database; (3) protecting cultural and scenic values of the Oregon, California, Mormon Pioneer and Pony Express National Historic Trails.

WY-184Q-672  2509.2 Acres T.0270N, R.1030W, 06th PM, WY Sec. 027  ALL; 028  ALL; 029 2WNE, SENE, NW, S2; 030 LOTS 1-4; 030 E2W2, E2; Sublette County Rock Springs FO Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMA WY_SW_TLS_PHMAWCA WY_SW_CSU_PHMA Special Lease Notice: This parcel is located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridor functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1 TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.

CSU (1) Surface occupancy or use within 1/4 mile or visual horizon of the trail, whichever is closer, 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 Rock Springs Field Office GIS database; (3) protecting cultural and scenic values of the Oregon, California, Mormon Pioneer and Pony Express National Historic Trails.

WY-184Q-671  2510.64 Acres T.0270N, R.1030W, 06th PM, WY Sec. 019 LOTS 1-4; 019 E2W2,E2; 020 ALL; 021 N2,N2SW,SESW,SE; 022 ALL; Sublette County Rock Springs FO Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMA WY_SW_TLS_PHMA WY_SW_TLS_PHMAWCA WY_SW_CSU_PHMA Special Lease Notice: This parcel is located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridor functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1 TLS (1) Feb 1 to July 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.

WY-184Q-670  1913.12 Acres T.0270N, R.1030W, 06th PM, WY Sec. 015 ALL; 017 ALL; 018 LOTS 1-4; 018 E2W2,E2; Sublette County Rock Springs FO Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMA WY_SW_TLS_PHMA WY_SW_TLS_PHMAWCA WY_SW_CSU_PHMA Special Lease Notice: This parcel is located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridor functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1 TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.
WY-184Q-673 2547.28 Acres
T.0270N, R.1040W, 06th PM, WY
Sec. 031 LOTS 1-4;
  031 E2W2,E2;
  032 ALL;
  033 ALL;
  034 ALL;
Sublette County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

004 (EXCL 39.97 AC IN RR ROW
  UNDER ACT OF 3/3/1875);
  008 NWNE,N2NW,SW;
  008 NENE,S2N2 (EXCL 28.69 AC
  IN RR ROW UNDER ACT OF
  008 3/3/1875);
Sweetwater County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

004 (EXCL 39.97 AC IN RR ROW
  UNDER ACT OF 3/3/1875);
  008 NWNE,N2NW,SW;
  008 NENE,S2N2 (EXCL 28.69 AC
  IN RR ROW UNDER ACT OF
  008 3/3/1875);
Sweetwater County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-675 1303.58 Acres
T.0190N, R.1040W, 06th PM, WY
Sec. 022 RR ROW WYE06549, 24.95 AC IN RR
  (EXCL 22.19 AC IN RR ROW
  WYE06549); 24.95 AC IN RR
  (EXCL 3/3/1875, & 4.59 AC IN
  RR ROW WYW49421); 3/3/1875, & 4.59 AC IN
  RR ROW WYW49421);
  028 LOTS 1,3,4,11-16;
  028 LOTS 2,5,7,12 (EXCL 20.87
  AC IN RR ROW WYW49421);
  030 LOT 8,SES52SE (EXCL
  030 6.55 AC IN RR ROW
  030 WYW029443 & 13.50 AC IN RR
  030 RR ROW WYW 49428);
Sweetwater County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-676 469.1 Acres
T.0200N, R.1040W, 06th PM, WY
Sec. 032 LOTS 1,2,6-11,14-16;
  032 LOT 3 (EXCL 4.59 AC IN RR
  ROW WYE01970);
Sweetwater County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-677 1927.06 Acres
T.0270N, R.1040W, 06th PM, WY
Sec. 001 LOTS 1-4;
  001 S2N2,S2;
  002 LOTS 1-4;
  003 LOTS 1-4;
  003 S2N2,S2;
Sublette County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-678 2240 Acres
T.0270N, R.1040W, 06th PM, WY
Sec. 013 ALL;
  023 N2SW,N2SE;
  024 ALL;
  026 N2NW,S2;
Sublette County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

DOI-BLM-WY-0000-2018-0004-EA 5-130
Special Lease Notice: This parcel is located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridor functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1.

TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.

WY-184Q-682 646.91 Acres T.0290N, R.1070W, 06th PM, WY
Sec. 001 LOTS 5-20;
Sublette County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PMAWCA
WY_SW_CSU_PHMA
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.

WY-184Q-683 1435.76 Acres T.0290N, R.1070W, 06th PM, WY
Sec. 013 LOTS 1-12,14-16;
014 LOTS 1-3,6-15;
024 LOTS 1,2,7-10,15,16;
Sublette County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PMAWCA
WY_SW_CSU_PHMA
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.

WY-184Q-684 1199.52 Acres T.0290N, R.1070W, 06th PM, WY
Sec. 034 LOTS 1-11,14-16;
035 LOTS 1-16;
Sublette County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PMAWCA
WY_SW_CSU_PHMA
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.

WY-184Q-680 2560 Acres T.0270N, R.1040W, 06th PM, WY
Sec. 011 ALL;
012 ALL;
014 ALL;
015 ALL;
Sublette County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PMAWCA
WY_SW_CSU_PHMA
Special Lease Notice: This parcel is located within a big game migration corridor designated or currently under review by the Wyoming Game and Fish Department. The lessee or their designated operator will be required to work with the BLM and Wyoming Game and Fish Department to take reasonable measures (see 43 CFR 3101.1-2) to avoid and minimize impacts to maintain big game migration corridor functionality, such as those contained within the "Wyoming Game and Fish Commission Ungulate Migration Corridor Strategy" (February 2016). The BLM will encourage the use of Master Development Plans for operations proposed on this lease parcel in accordance with Onshore Oil and Gas Order No. 1.

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

WY-184Q-685 317.36 Acres T.0280N, R.1070W, 06th PM, WY
Sec. 007 LOTS 5-8;
007 E2W2;
Sublette County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PMAWCA
WY_SW_CSU_PHMA
CSU (1) Surface occupancy or use within 1/4 mile or visual horizon of the trail, whichever is closer, 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 Rock Springs Field Office GIS database; (3) protecting cultural and scenic values of the Oregon, California, Mormon Pioneer and Pony Express National Historic Trails.
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMAL
WY_SW_TLS_GHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting active raptor nests.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.
TLS (1) Feb 1 to July 31; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting nesting Raptors.

WY-184Q-685 79.78 Acres
T.0290N, R.1070W, 06th PM, WY Sec. 034 LOTS 12,13;
Sublette County
Rock Springs FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMAL
WY_SW_TLS_GHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
NSO (1) as mapped on the Rock Springs Field Office GIS database; (2) protecting active raptor nests.
TLS (1) Nov 15 to Apr 30; (2) as mapped on the Rock Springs Field Office GIS database; (3) protecting big game crucial winter range.

WY-184Q-689 1282.08 Acres
T.0190N, R.1180W, 06th PM, WY Sec. 006 LOTS 8-14;
Lincoln County
Kemmerer FO
Stipulations:
WY_SW_NSO_PHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
NSO (1) as mapped on the Kemmerer Field Office database; (2) protecting ¼ mile on each side of Class I trail segments and within ¼ mile radius of gravesites and landmarks along the Oregon/California National Historic Trail.
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 Kemmerer Field Office GIS database; (3) protecting Class I and/or Class II Visual Resource Management Areas.

WY-184Q-692 1263.36 Acres
T.0190N, R.1180W, 06th PM, WY Sec. 006 LOTS 8-14;
Lincoln County
Kemmerer FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
NSO (1) as mapped on the Kemmerer Field Office GIS database; (2) protecting Class I trail segments and within ¼ mile radius of gravesites and landmarks along the Oregon/California National Historic Trail.
CSU (1) as mapped on the Kemmerer Field Office GIS database; (3) protecting cultural and scenic values of the Oregon/California National Historic Trail.
TLS (1) April 10 to July 10 (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting Class I and/or Class II Visual Resource Management Areas.
Lease Stipulation No. 3
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
WY_SW_NSO_PHMAL
WY_SW_TLS_PHMAL
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
WSW-184Q-694        2480 Acres
T.0200N, R.1180W, 06th PM, WY Sec. 020 ALL;
022 ALL;
024 NENE,NENW,S2N2,S2;
026 ALL;
Lincoln County Kemmerer FO Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
WSW-184Q-695        2542.4 Acres
T.0200N, R.1180W, 06th PM, WY Sec. 028 ALL;
030 LOTS 5-8;
032 ALL;
034 ALL;
Lincoln County Kemmerer FO Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSOPHMA
WY_SW_TLS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
WSW-184Q-696        1920 Acres
T.0190N, R.1190W, 06th PM, WY Sec. 012 ALL;
014 ALL;
022 ALL;
Lincoln County Kemmerer FO Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
WSW-184Q-697        2560 Acres
T.0190N, R.1190W, 06th PM, WY Sec. 020 ALL;
022 ALL;
024 ALL;
028 ALL;
Lincoln County Kemmerer FO Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY-184Q-699        2384.4 Acres
T.0190N, R.1180W, 06th PM, WY Sec. 010 ALL;
012 N2SE;
014 ALL;
018 LOTS 5-8;
018 E2W2,E2;
Lincoln County Kemmerer FO Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSOPHMA
WY_SW_TLS_PHMA
WY_SW_TLS_PHMAWCA
WY_SW_CSU_PHMA
NSO (1) as mapped on the Kemmerer Field Office GIS database; (2) protecting ¼ mile on each side of Class I trail segments and within ¼ mile radius of gravesites and landmarks along the Oregon/California National Historic Trail.
CSU (1) as mapped on the Kemmerer Field Office GIS database; (3) protecting Class I trail segments and within ¼ mile radius of gravesites and landmarks along the Oregon/California National Historic Trail.
TLS (1) April 10 to July 10 (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting Class I and/or Class II Visual Resource Management Areas.
Lease Stipulation No. 3
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMAL
WY_SW_TLS_GHMAL
WY_SW_TLS_PHAMAWCA
WY_SW_TLS_PHMAL
WY_SW_CSU_PHMA

NSO (1) as mapped on the Kemmerer Field Office database; (2) protecting ¼ mile on each side of Class I trail segments and within ¼ mile radius of gravesites and landmarks along the Oregon/California National Historic Trail.

TLS (1) April 10 to July 10 (2) as mapped on the Kemmerer Field Office GIS database; (3) protecting nesting mountain plover.

CSU (1) Surface occupancy or use, within three miles of the Bear River Divide trail landmark, 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 Kemmerer Field Office GIS database; (3) protecting the Bear River Divide trail landmark viewshed.

CSU (1) Surface occupancy or use within 3 miles or visual horizon of the historic trail, whichever is closer, 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 cultural and scenic values of the Bridger Trail.

WY-184Q-699 1422.68 Acres
T.0200N, R.1190W, 06th PM, WY Sec. 026 E2E2;
030 LTS 5-8;
030 E2W2,E2;
032 ALL;
Lincoln County
Kemmerer FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_TLS_GHMAL
WY_SW_TLS_PHAMAL
WSW_TLS_PHAMAWCA
WY_SW_CSU_PHMA

NSO (1) as mapped on the Kemmerer Field Office database; (2) protecting 500 feet on each side of Class II trail segments and within 500 foot radius of gravesites and landmarks along the Oregon/California National Historic Trail.

WY-184Q-701 320 Acres
T.0460N, R.0680W, 06th PM, WY
Sec. 008 NE;
009 W2W2;
Weston County
Newcastle FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3

WY-184Q-702 280 Acres
T.0340N, R.0840W, 06th PM, WY
Sec. 018 N2NE,SENE,E2SW,E2SE;
Natrona County
Casper FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMAL
WY_SW_TLS_PHAMAL
WSW_TLS_PHAMAWCA
WY_SW_CSU_PHMA
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Casper Field Office GIS database; (3) protecting nesting Raptors.

WY-184Q-708 280 Acres
T.0460N, R.0680W, 06th PM, WY
Sec. 008 NE;
009 W2W2;
Weston County
Newcastle FO
Stipulations:
Lease Notice No. 1
Lease Notice No. 2
Lease Notice No. 3
Lease Stipulation No. 1
Lease Stipulation No. 2
Lease Stipulation No. 3
WY_SW_NSO_PHMAL
WY_SW_TLS_PHAMAL
WSW_TLS_PHAMAWCA
WY_SW_CSU_PHMA
TLS (1) Feb 1 to Jul 31; (2) as mapped on the Casper Field Office GIS database; (3) protecting nesting Raptors.
### Lease Stipulation Code Index

<table>
<thead>
<tr>
<th>STIPULATION CODE</th>
<th>STIPULATION LANGUAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>WY_BFO_CSU_BEGE</td>
<td>CSU  (1) Prior to surface disturbance within 1.0 mile of consistently used bald and golden eagle winter roosts and riparian corridors a mitigation plan (Plan) must be submitted to the BLM by the applicant as a component of the Application for Permit to Drill (BLM Form 3160-3) or Sundry Notice (BLM Form 3160-5) – Surface Use Plan of Operations. The operator shall not initiate surface-disturbing activities unless the BLM Authorized Officer has approved the Plan (with conditions, as appropriate). The Plan must demonstrate to the Authorized Officer’s satisfaction that wintering eagles will not be disturbed (as defined by the Bald and Golden Eagle Protection Act). Bald or golden eagles will not be agitated or bothered to a degree that causes or is likely to cause physical injury, or a decrease in productivity by substantially interfering with normal breeding, feeding, or sheltering behavior; (2) as mapped on the Buffalo Field Office GIS database or determined by field evaluation, in coordination with the Wyoming Game and Fish Department and/or US Fish and Wildlife Service; (3) protecting bald and golden eagle winter roosting habitat.</td>
</tr>
<tr>
<td>WY_BFO_CSU_BGCW</td>
<td>CSU  (1) Prior to surface disturbance within Wyoming Game and Fish Department designated big game crucial winter range, a mitigation plan (Plan) must be submitted to the BLM by the applicant as a component of the Application for Permit to Drill (BLM Form 3160-3) or Sundry Notice (BLM Form 3160-5) – Surface Use Plan of Operations. The operator shall not initiate surface-disturbing activities unless the BLM Authorized Officer has approved the Plan (with conditions, as appropriate). The Plan must demonstrate to the Authorized Officer’s satisfaction that the function and suitability of crucial big game winter ranges will not be impaired; (2) as mapped by the Wyoming Game and Fish Department; (3) ensuring the function and suitability of crucial big game winter range.</td>
</tr>
<tr>
<td>WY_BFO_CSU_C100F</td>
<td>CSU  (1) Prior to surface disturbance or disruptive activities near an entrance to a significant cave a mitigation plan (Plan) must be submitted to the BLM by the applicant as a component of the Application for Permit to Drill (BLM Form 3160-3) or Sundry Notice (BLM Form 3160-5) – Surface Use Plan of Operations. The operator shall not initiate surface-disturbing activities unless the BLM Authorized Officer has approved the Plan (with conditions, as appropriate). The Plan must demonstrate to the BLM Authorized Officer’s satisfaction that the action will not destroy, disturb, deface, mar, alter, remove, or harm any significant cave or alter the free movement of any animal or plant life into or out of any significant cave; (2) as mapped by the BLM; (3) protecting significant cave resources (any material or substance occurring naturally in caves, such as animal life, plant life, paleontological deposits, sediments, minerals, speleogens, and speleothems).</td>
</tr>
<tr>
<td>STIPULATION CODE</td>
<td>STIPULATION LANGUAGE</td>
</tr>
<tr>
<td>-----------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>WY_BFO_CSU_CLBA</td>
<td>(1) Surface use or occupancy shall not be allowed by oil and gas lessee(s), operating rights holder(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 Federal coal lease(s) 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 BLM Authorized Officer; (2) on areas identified as highly likely to be considered in a Coal Lease By Application as mapped by the US Office of Surface Mining, Wyoming Department of Environmental Quality, US Geological Survey, and/or BLM; (3) protecting the first in time valid existing rights of the coal lessee, the BLM Authorized Officer reserves the right to alter or modify any oil and gas operations on the lands described in this lease ensuring the orderly development of the coal resource by surface and/or underground mining methods, coal mine worker safety, and/or coal production rates or recovery of the coal resource. The oil and gas lessee(s), operating rights holder(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 coalbed natural gas, caused by coal exploration or mining operations conducted on Federal coal lease.</td>
</tr>
<tr>
<td>WY_BFO_CSU_EC</td>
<td>(1) Prior to surface disturbance within Wyoming Game and Fish Department designated elk calving areas a mitigation plan (Plan) must be submitted to the BLM by the applicant as a component of the Application for Permit to Drill (BLM Form 3160-3) or Sundry Notice (BLM Form 3160-5) – Surface Use Plan of Operations. The operator shall not initiate surface-disturbing activities unless the BLM Authorized Officer has approved the Plan (with conditions, as appropriate). The Plan must demonstrate to the Authorized Officer’s satisfaction that the function and suitability of elk calving areas will not be impaired; (2) as mapped by the Wyoming Game and Fish Department; (3) ensuring the function and suitability of elk calving areas.</td>
</tr>
<tr>
<td>STIPULATION CODE</td>
<td>STIPULATION LANGUAGE</td>
</tr>
<tr>
<td>-------------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>WY_BFO_CSU_ECWC</td>
<td>CSU (1) Fluid mineral production and byproducts shall be piped out of, and permanent above ground facilities will be located outside of, Wyoming Game and Fish Department designated elk crucial winter range and calving areas unless a mitigation plan (Plan) is submitted by the applicant and approved by the BLM as a component of the Application for Permit to Drill (BLM Form 3160-3) or Sundry Notice (BLM Form 3160-5) – Surface Use Plan of Operations. The operator shall not initiate surface-disturbing activities unless the BLM Authorized Officer has approved the Plan (with conditions, as appropriate). The Plan must demonstrate to the Authorized Officer’s satisfaction that the function and suitability of elk crucial winter range and elk calving areas will not be impaired; (2) as mapped by the Wyoming Game and Fish Department; (3) ensuring the function and suitability of elk crucial winter range and elk calving areas.</td>
</tr>
<tr>
<td>WY_BFO_CSU_FCR</td>
<td>CSU (1) Surface-disturbing and disruptive activities shall only be approved with adequate mitigation to ensure compliance with the Fortification Creek Resources Management Plan Amendment (BLM 2011) performance standards. Prior to surface disturbance within the Fortification Creek Planning Area a mitigation plan (Plan) must be submitted to the BLM by the applicant as a component of the Application for Permit to Drill (BLM Form 3160-3) or Sundry Notice (BLM Form 3160-5) – Surface Use Plan of Operations. The operator shall not initiate surface-disturbing activities unless the BLM Authorized Officer has approved the Plan (with conditions, as appropriate); (2) within the Fortification Creek Planning Area (Map 3-36); (3) protecting the viability of the Fortification elk herd and facilitating ecosystem reconstruction in the stabilization of disturbed areas.</td>
</tr>
<tr>
<td>WY_BFO_CSU_FQM</td>
<td>CSU (1) Prior to surface disturbance within 0.25 mile of naturally occurring water bodies containing native or desirable non-native fish species a mitigation plan (Plan) must be submitted to the BLM by the applicant as a component of the Application for Permit to Drill (BLM Form 3160-3) or Sundry Notice (BLM Form 3160-5) – Surface Use Plan of Operations. The operator shall not initiate surface-disturbing activities unless the BLM Authorized Officer has approved the Plan (with conditions, as appropriate). The Plan must demonstrate to the Authorized Officer’s satisfaction that there will not be a local decline in fish abundance or range as a result of the lease operations. Examples of a few of the items to consider are as follows. Spill prevention measures must be used to ensure hydrocarbons and other potentially toxic substances used for lease activities are prevented from entering the watercourse. Sediment control measures must be used to ensure increased sediment contributions are avoided; (2) as mapped by the Wyoming Game and Fish Department and/or BLM; (3) protecting native and desirable non-native fish populations and habitat.</td>
</tr>
<tr>
<td>WY_BFO_CSU_GSGRH</td>
<td>CSU (1) All applicable surface disturbances (existing or future, and not limited to fluid mineral disturbances) must be restored, as described in the Buffalo Field Office Resource Management Plan, to the approval of the BLM Authorized Officer; (2) Greater Sage-grouse Core Population Areas and Connectivity Corridors (Priority Habitat) as mapped on the Buffalo Field Office GIS database; (3) to restore functional Greater Sage-grouse habitat to support core Greater Sage-grouse populations.</td>
</tr>
<tr>
<td>WY_BFO_CSU_H</td>
<td>CSU (1) Prior to surface disturbance within 3 miles of the Pumpkin Buttes, Cantonment Reno, Dull Knife Battle, and Crazy Woman Battle historic properties, contributing and unevaluated segments of the Bozeman Trail, all rock art sites, all rock shelter sites, and all Native American burials, a mitigation plan (Plan) must be submitted to the BLM by the applicant as a component of the Application for Permit to Drill (BLM Form 3160-3) or Sundry Notice (BLM Form 3160-5) – Surface Use Plan of Operations. The operator may not initiate surface-disturbing activities unless the BLM Authorized Officer has approved the Plan or approved it with conditions after consultation with the State Historic Preservation Office, applicable Indian tribes, and other interested parties. The Plan must demonstrate to the Authorized Officer’s satisfaction that there will be no adverse effects to National Register of Historic Places eligible or listed historic properties (i.e., the infrastructure will either not be visible or will result in a weak contrast rating); (2) as mapped on the Buffalo Field Office GIS database; (3) ensuring the setting of historic properties.</td>
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<td>WY_BFO_CSU_H20500F</td>
<td>CSU  (1) Prior to surface disturbance within 500 feet of springs, reservoirs not associated with coal bed natural gas projects, water wells, and perennial streams a site-specific construction, stabilization, and reclamation plan (Plan) must be submitted to the BLM by the applicant as a component of the Application for Permit to Drill (BLM Form 3160-3) or Sundry Notice (BLM Form 3160-5) – Surface Use Plan of Operations. The operator shall not initiate surface-disturbing activities unless the BLM Authorized Officer has approved the Plan (with conditions, as appropriate). The Plan must demonstrate to the BLM Authorized Officer’s satisfaction how the operator will meet the following performance standards. Storm water and surface runoff will be controlled to minimize erosion (rilling, gullying, piping, mass wasting) and offsite siltation during construction, use/operations, and reclamation. Offsite areas will be protected from accelerated soil erosion. The original landform and site productivity will be partially restored during interim reclamation and fully restored as a result of final reclamation; (2) as mapped by the US Geological Survey's National Hydrologic Inventory and/or as determined by a BLM evaluation of the area; (3) ensuring protection of surface waters and associated riparian habitats by meeting the standards outlined in, Chapter 6 of the BLM’s Oil and Gas Gold Book, as revised, and the 2015 Buffalo Field Office Resource Management Plan Record of Decision.</td>
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<tr>
<td>WY_BFO_CSU_PD</td>
<td>CSU  (1) Prior to surface disturbance within active prairie dog colonies on BLM-administered surface a special status species occupancy survey must be conducted and a mitigation plan (Plan) must be submitted to the BLM by the applicant as a component of the Application for Permit to Drill (BLM Form 3160-3) or Sundry Notice (BLM Form 3160-5) – Surface Use Plan of Operations. The operator shall not initiate surface-disturbing activities unless the BLM Authorized Officer has approved the Plan (with conditions, as appropriate). The Plan must demonstrate to the Authorized Officer’s satisfaction that activities with active prairie dog colonies on BLM surface would not adversely impact suitable habitat for special status species dependent upon prairie dog colonies; (2) as mapped or determined on the Buffalo Field Office GIS database or from field evaluation, in coordination with the US Fish and Wildlife Service and Wyoming Game and Fish Department; (3) conserving special status species wildlife and the prairie dog colonies on which they depend.</td>
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<tr>
<td>WY_BFO_CSU_PHMAC</td>
<td>CSU  (1) Surface occupancy or use will be restricted. The cumulative value of all applicable surface disturbances, existing or future, must not exceed 5 percent of the Disturbance Density Calculation Tool (DDCT) area, as described in the DDCT manual; (2) as mapped on the Buffalo Field Office GIS database; (3) to protect Greater Sage-grouse designated Priority Habitat Management Areas (Connectivity only) from habitat fragmentation and loss. This lease does not guarantee the lessee the right to occupy the surface of the lease for the purpose of producing oil and natural gas within Greater Sage-grouse designated PHMAs (Connectivity only). The surface occupancy restriction criteria identified in this stipulation may preclude surface occupancy and may be beyond the ability of the lessee to meet due to existing surface disturbance on Federal, State, or private lands within designated PHMAs (Connectivity only) or surface disturbance created by other land users. The BLM may require the lessee or operator to enter into a unit agreement or drilling easement to facilitate the equitable development of this and surrounding leases.</td>
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<tr>
<td>WY_BFO_CSU_R500F</td>
<td>CSU  (1) Prior to surface disturbance within 500 feet of riparian systems, wetlands, and aquatic habitats a site-specific construction, stabilization, and reclamation plan (Plan) must be submitted to the BLM by the applicant as a component of the Application for Permit to Drill (BLM Form 3160-3) or Sundry Notice (BLM Form 3160-5) – Surface Use Plan of Operations. The operator shall not initiate surface-disturbing activities unless the BLM Authorized Officer has approved the Plan (with conditions, as appropriate). The Plan must demonstrate to the BLM Authorized Officer’s satisfaction how the operator will meet the following performance standards. Storm water and surface runoff will be controlled to minimize erosion (rilling, gullyng, piping, mass wasting) and offsite siltation during construction, use/operations, and reclamation. Offsite areas will be protected from accelerated soil erosion. The original landform and site productivity will be partially restored during interim reclamation and fully restored as a result of final reclamation; (2) as mapped by the US Geological Survey's National Hydrologic Inventory and/or as determined by a BLM evaluation of the area; (3) ensuring protection of surface waters and associated riparian habitats by meeting the standards outlined in, Chapter 6 of the BLM’s Oil and Gas Gold Book, as revised, and the 2015 Buffalo Field Office Resource Management Plan Record of Decision.</td>
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<tr>
<td>WY_BFO_CSU_RN</td>
<td>CSU  (1) Prior to surface disturbance within US Fish and Wildlife Service recommended spatial buffers of raptor nests a mitigation plan (Plan) must be submitted to the BLM by the applicant as a component of the Application for Permit to Drill (BLM Form 3160-3) or Sundry Notice (BLM Form 3160-5) – Surface Use Plan of Operations. The operator shall not initiate surface-disturbing activities unless the BLM Authorized Officer has approved the Plan (with conditions, as appropriate). The Plan must demonstrate to the Authorized Officer’s satisfaction that nesting raptors will not be disturbed. Nesting raptors will not be agitated or bothered to a degree that causes or is likely to cause physical injury, a decrease in productivity by substantially interfering with normal breeding, feeding, or sheltering behavior, or nest abandonment by substantially interfering with normal breeding, feeding, or sheltering behavior; (2) as mapped on the Buffalo Field Office GIS database or determined by the BLM from field evaluation in coordination with the Wyoming Game and Fish Department and/or US Fish and Wildlife Service; (3) ensuring raptor productivity.</td>
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<tr>
<td>WY_BFO_CSU_SE</td>
<td>CSU  (1) Prior to surface disturbance on soils with a severe erosion hazard rating a site-specific construction, stabilization, and reclamation plan (Plan) must be submitted to the BLM by the applicant as a component of the Application for Permit to Drill (BLM Form 3160-3) or Sundry Notice (BLM Form 3160-5) – Surface Use Plan of Operations. The operator shall not initiate surface-disturbing activities unless the BLM Authorized Officer has approved the Plan (with conditions, as appropriate). The Plan must demonstrate to the BLM Authorized Officer’s satisfaction how the operator will meet the following performance standards. The disturbed area will be stabilized with no evidence of accelerated erosion features. The disturbed area shall be managed to ensure soil characteristics approximate an appropriate reference site with regard to erosional features to maintain soil productivity and sustainability. Sufficient viable topsoil is maintained for ensuring successful final reclamation. At locations where interim reclamation will be completed, this will be accomplished by respreading all salvaged topsoil over the areas of interim reclamation. The original landform and site productivity will be partially restored during interim reclamation and fully restored as a result of final reclamation; (2) as mapped by the Natural Resources Conservation Service Soil Survey Geographic Database (SSURGO) Order 3 soil survey and/or as determined by a BLM evaluation of the area; (3) ensuring successful reclamation and erosion control on soils with a severe erosion hazard rating in order to meet the standards outlined in Chapter 6 the BLM’s Oil and Gas Gold Book, as revised, and the 2015 Buffalo Field Office Resource Management Plan Record of Decision.</td>
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<tr>
<td>WY_BFO_CSU_Slopes25to50</td>
<td>CSU  (1) Prior to surface disturbance on slopes greater than 25% and less than 50% a site-specific construction, stabilization, and reclamation plan (Plan) must be submitted to the BLM by the applicant as a component of the Application for Permit to Drill (BLM Form 3160-3) or Sundry Notice (BLM Form 3160-5) – Surface Use Plan of Operations. The Plan must include designs approved and stamped by a licensed engineer. The operator shall not initiate surface-disturbing activities unless the BLM Authorized Officer has approved the Plan (with conditions, as appropriate). The Plan must demonstrate to the BLM Authorized Officer’s satisfaction how the operator will meet the following performance standards. Slope stability is maintained preventing slope failure or mass wasting. The disturbed area will be stabilized with no evidence of accelerated erosion features. The disturbed area shall be managed to ensure soil characteristics approximate an appropriate reference site with regard to erosional features to maintain soil productivity and sustainability. Sufficient viable topsoil is maintained for ensuring successful final reclamation. At locations where interim reclamation will be completed, this will be accomplished by respreading all salvaged topsoil over the areas of interim reclamation. The original landform and site productivity will be partially restored during interim reclamation and fully restored as a result of final reclamation; (2) as mapped by the US Geological Survey (USGS) 1:24,000 scale topographic maps, USGS Digital Elevation Models, and/or as determined by a BLM evaluation of the area; (3) ensuring successful reclamation and erosion control on slopes greater than 25% and less than 50% in order to meet the standards outlined in Chapter 6 of the BLM’s Oil and Gas Gold Book, as revised, and the 2015 Buffalo Field Office Resource Management Plan Record of Decision.</td>
</tr>
<tr>
<td>WY_BFO_CSU_SLR</td>
<td>CSU  (1) Prior to surface disturbance on limited reclamation potential areas a site-specific construction, stabilization, and reclamation plan (Plan) must be submitted to the BLM by the applicant as a component of the Application for Permit to Drill (BLM Form 3160-3) or Sundry Notice (BLM Form 3160-5) – Surface Use Plan of Operations. The Plan must include designs approved and stamped by a licensed engineer. The operator shall not initiate surface-disturbing activities unless the BLM Authorized Officer has approved the Plan (with conditions, as appropriate). The Plan must demonstrate to the BLM Authorized Officer’s satisfaction how the operator will meet the following performance standards. The disturbed area will be stabilized with no evidence of accelerated erosion features. The disturbed area shall be managed to ensure soil characteristics approximate an appropriate reference site with regard to erosional features to maintain soil productivity and sustainability. Slope stability is maintained preventing slope failure and erosion. Sufficient viable topsoil is maintained for ensuring successful final reclamation. At locations where interim reclamation will be completed, this will be accomplished by respreading all salvaged topsoil over the areas of interim reclamation. The original landform and site productivity will be partially restored during interim reclamation and fully restored as a result of final reclamation; (2) as mapped by the Natural Resources Conservation Service Soil Survey Geographic Database (SSURGO) Order 3 soil survey and as determined by a BLM evaluation of the area; (3) ensuring successful reclamation and erosion control on limited reclamation potential areas in order to meet the standards outlined in Chapter 6 of the BLM’s Oil and Gas Gold Book, as revised, and the 2015 Buffalo Field Office Resource Management Plan Record of Decision.</td>
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<tr>
<td>WY_BFO_CSU_SSP</td>
<td>CSU  (1) Prior to surface disturbance within Ute ladies’-tresses orchid habitat flowering season survey(s) must be conducted and a mitigation plan (Plan) must be submitted to the BLM by the applicant as a component of the Application for Permit to Drill (BLM Form 3160-3) or Sundry Notice (BLM Form 3160-5) – Surface Use Plan of Operations. The operator shall not initiate surface-disturbing activities unless the BLM Authorized Officer has approved the Plan (with conditions, as appropriate). The Plan must demonstrate to the Authorized Officer’s satisfaction that Ute ladies’-tresses orchids will not be harmed and that the habitat on which they depend will be conserved; (2) as mapped or determined by the US Fish and Wildlife Service, Wyoming Natural Diversity Database, the Buffalo Field Office GIS database, or from field evaluation; (3) conserving Ute ladies’-tresses orchids and the habitat on which they depend.</td>
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<td>WY_BFO_CSU_SSPF</td>
<td>CSU   (1) Prior to surface disturbance within special status plant species habitats, flowering season surveys must be conducted and a mitigation plan (Plan) must be submitted to the BLM by the applicant as a component of the Application for Permit to Drill (BLM Form 3160-3) or Sundry Notice (BLM Form 3160-5) – Surface Use Plan of Operations. The operator shall not initiate surface-disturbing activities unless the BLM Authorized Officer has approved the Plan (with conditions, as appropriate). The Plan must demonstrate to the Authorized Officer’s satisfaction that special status plant species will not be harmed and that the habitat on which they depend will be conserved; (2) as mapped or determined by the US Fish and Wildlife Service, Wyoming Natural Diversity Database, the Buffalo Field Office GIS database, or from field evaluation; (3) conserving special status plant species and the habitat on which they depend.</td>
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<tr>
<td>WY_BFO_CSU_SSWLA</td>
<td>CSU   (1) Prior to surface disturbance within 1,640 feet (500 meters) of perennial water, vernal pools, playas, and wetlands appropriate surveys must be conducted and a mitigation plan (Plan) must be submitted to the BLM by the applicant as a component of the Application for Permit to Drill (BLM Form 3160-3) or Sundry Notice (BLM Form 3160-5) – Surface Use Plan of Operations. The operator may not initiate surface-disturbing activities unless the BLM Authorized Officer has approved the Plan or approved it with conditions. The Plan must demonstrate to the Authorized Officer’s satisfaction that special status amphibian species will not be disturbed to a degree that causes or is likely to cause physical injury, a decrease in productivity by substantially interfering with normal breeding, sheltering, or hibernation behavior, or site abandonment by substantially interfering with normal breeding, sheltering, or hibernation behavior; (2) as mapped on the Buffalo Field Office GIS database or determined by field evaluation, in coordination with the Wyoming Game and Fish Department and/or US Fish and Wildlife Service; (3) ensuring production of special status amphibian species breeding, sheltering, and hibernation habitat.</td>
</tr>
<tr>
<td>WY_BFO_CSU_SSWLB</td>
<td>CSU   (1) Prior to surface disturbance within 1,640 feet (500 meters) of cave entrances, mature forest, and rock outcrops appropriate surveys must be conducted and a mitigation plan (Plan) must be submitted to the BLM by the applicant as a component of the Application for Permit to Drill (BLM Form 3160-3) or Sundry Notice (BLM Form 3160-5) – Surface Use Plan of Operations. The operator may not initiate surface-disturbing activities unless the BLM Authorized Officer has approved the Plan or approved it with conditions. The Plan must demonstrate to the Authorized Officer’s satisfaction that special status bat species will not be disturbed to a degree that causes or is likely to cause physical injury, a decrease in productivity by substantially interfering with normal breeding, nursery, roosting, or hibernation behavior, or site abandonment by substantially interfering with normal breeding, nursery, roosting, or hibernation behavior; (2) as mapped on the Buffalo Field Office GIS database or determined by field evaluation, in coordination with the Wyoming Game and Fish Department and/or US Fish and Wildlife Service; (3) ensuring protection of special status bat species breeding, nursery, roosting, and hibernation habitat.</td>
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<tr>
<td>WY_BFO_CSU_SSWLH</td>
<td>CSU   (1) Prior to surface disturbance within special status species wildlife habitat an occupancy survey must be conducted and a mitigation plan (Plan) must be submitted to the BLM by the applicant as a component of the Application for Permit to Drill (BLM Form 3160-3) or Sundry Notice (BLM Form 3160-5) – Surface Use Plan of Operations. The operator shall not initiate surface-disturbing activities unless the BLM Authorized Officer has approved the Plan (with conditions, as appropriate). The Plan must demonstrate to the Authorized Officer’s satisfaction that special status wildlife species will not be harmed (any act which actually kills or injures wildlife including habitat modification or degradation that substantially impairs essential behavioral patterns) and that the habitat on which they depend will be conserved; (2) as mapped or determined by the US Fish and Wildlife Service, Wyoming Game and Fish Department, Wyoming Natural Diversity Database, or BLM from field evaluation; (3) conserving special status species wildlife and the habitat on which they depend (BLM 2008 -6840 manual).</td>
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<tr>
<td>WY_BFO_CSU_SSWLR</td>
<td>CSU (1) Prior to surface disturbance within 1,640 feet (500 meters) of south facing rock outcrops, perennial water, vernal pools, playas, and wetlands appropriate surveys must be conducted and a mitigation plan (Plan) must be submitted to the BLM by the applicant as a component of the Application for Permit to Drill (BLM Form 3160-3) or Sundry Notice (BLM Form 3160-5) – Surface Use Plan of Operations. The operator may not initiate surface-disturbing activities unless the BLM Authorized Officer has approved the Plan or approved it with conditions. The Plan must demonstrate to the Authorized Officer’s satisfaction that special status reptile species will not be disturbed to a degree that causes or is likely to cause physical injury, a decrease in productivity by substantially interfering with normal breeding, basking, sheltering, or hibernation behavior, or site abandonment by substantially interfering with normal breeding, basking, sheltering, or hibernation behavior; (2) as mapped on the Buffalo Field Office GIS database or determined by field evaluation, in coordination with the Wyoming Game and Fish Department and/or US Fish and Wildlife Service; (3) ensuring production of special status reptile species breeding, basking, sheltering, and hibernation habitat.</td>
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<tr>
<td>WY_BFO_CSU_STG</td>
<td>CSU (1) Prior to surface disturbance within 0.25 mile of the perimeter of occupied sharp-tailed grouse leks a mitigation plan (Plan) must be submitted to the BLM by the applicant as a component of the Application for Permit to Drill (BLM Form 3160-3) or Sundry Notice (BLM Form 3160-5) – Surface Use Plan of Operations. The operator shall not initiate surface-disturbing activities unless the BLM Authorized Officer has approved the Plan (with conditions, as appropriate). The Plan must demonstrate to the Authorized Officer’s satisfaction that the function and suitability of sharp-tailed grouse breeding habitat will not be impaired (result in physical injury, a decrease in productivity by substantially interfering with normal breeding, feeding, or sheltering behavior, or lek abandonment by substantially interfering with normal breeding, feeding, or sheltering behavior); (2) as mapped by the Wyoming Game and Fish Department; (3) ensuring the function and suitability of sharp-tailed grouse breeding habitat.</td>
</tr>
<tr>
<td>WY_BFO_CSU_TCP</td>
<td>CSU (1) Prior to surface disturbance within 3 miles of traditional cultural properties a mitigation plan (Plan) must be submitted by the applicant. The Plan must be approved or approved with conditions by the BLM Authorized Officer prior to surface-disturbing activities after consultation with the State Historic Preservation Office, applicable Indian tribes, and other interested parties. The Plan must demonstrate there will be no adverse effects to National Register of Historic Places eligible or listed historic properties (i.e., proposed infrastructure is either not visible or will result in a weak contrast rating); (2) as mapped on the Buffalo Field Office GIS database; (3) ensuring the setting of traditional cultural properties.</td>
</tr>
<tr>
<td>WY_BFO_CSU_VRMII</td>
<td>CSU (1) Prior to surface disturbance within Visual Resource Management (VRM) Class 2 areas, a site-specific plan must be submitted to the BLM by the applicant as a component of the Application for Permit to Drill (BLM Form 3160-3) or Sundry Notice (BLM Form 3160-5) – Surface Use Plan of Operations. The operator shall not initiate surface-disturbing activities unless the BLM Authorized Officer has approved the plan (with conditions, as appropriate). The plan must demonstrate to the BLM Authorized Officer’s satisfaction how the operator will meet the following performance standards. A visual contrast rating must demonstrate that VRM Class 2 objectives will be met. Where required by the BLM Authorized Officer, a visual simulation must be prepared and must demonstrate that VRM Class 2 objectives will be met through practices such as siting of permanent facilities. Where present and feasible, existing surface disturbances shall be utilized. New surface disturbances shall be minimized to the extent practicable. All permanent above-ground facilities (such as production tanks or other production facilities) not having specific coloration requirements for safety must be painted or designed using a BLM-approved color; (2) as mapped on the Buffalo Field Office GIS database; (3) protecting VRM Class 2 areas.</td>
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<td>WY_BFO_CSU_WHSRMA</td>
<td>CSU   (1) Prior to surface disturbance within Special Recreation Management Areas (SRMAs) available for leasing (Weston Hills) a mitigation plan (Plan) must be submitted to the BLM by the applicant as a component of the Application for Permit to Drill (BLM Form 3160-3) or Sundry Notice (BLM Form 3160-5) – Surface Use Plan of Operations. The operator shall not initiate surface-disturbing activities unless the BLM Authorized Officer has approved the Plan (with conditions, as appropriate). The Plan must demonstrate to the Authorized Officer’s satisfaction that the proposed action is consistent with the prescribed management for the SRMA; (2) as mapped or determined by BLM; (3) ensuring the recreational opportunities and setting of the SRMA.</td>
</tr>
<tr>
<td>WY_BFO_NSO_BEGE</td>
<td>NSO   (1) Within 0.5 miles from the edge of consistently used bald or golden eagle winter roosts and Clear Creek, Crazy Woman Creek, Piney Creek, Powder River, and Tongue River, consistently used riparian corridors, as mapped on the Buffalo Field Office GIS database or determined by field evaluation, in coordination with the Wyoming Game and Fish Department and/or US Fish and Wildlife Service; (2) protecting wintering bald and golden eagles.</td>
</tr>
<tr>
<td>WY_BFO_NSO_BEN</td>
<td>NSO   (1) Within 0.5 mile of bald eagle nests as mapped on the Buffalo Field Office GIS database or determined by field evaluation, in coordination with the Wyoming Game and Fish Department and/or US Fish and Wildlife Service; (2) ensuring productivity of bald eagles.</td>
</tr>
<tr>
<td>WY_BFO_NSO_BGHMA</td>
<td>NSO   (1) Within Wyoming Game and Fish Department Big Game Habitat Management Areas (Ed O. Taylor, Kerns, Bud Love, and Amsden Creek) as mapped by the Wyoming Game and Fish Department; (2) ensuring the function and suitability of Wyoming Game and Fish Department Big Game Habitat Management Areas.</td>
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<tr>
<td>WY_BFO_NSO_H</td>
<td>NSO   (1) Within the Pumpkin Buttes, Cantonment Reno, Dull Knife Battle, and Crazy Woman Battle historic properties, contributing and unevaluated segments of the Bozeman Trail, all rock art sites, all rock shelter sites, all Native American burials; as mapped on the Buffalo Field Office GIS database; (2) protecting historic properties.</td>
</tr>
<tr>
<td>WY_BFO_NSO_HIP</td>
<td>NSO   (1) No surface occupancy or use is allowed on lands containing paleontological resources of high quality or importance as mapped on the Buffalo Field Office GIS database; (2) protecting paleontological resources of high quality or importance.</td>
</tr>
<tr>
<td>WY_BFO_NSO_PBACEC</td>
<td>NSO   (1) Within the Pumpkin Buttes Area of Critical Environmental Concern as mapped or determined by BLM; (2) protecting the relevant and important values.</td>
</tr>
<tr>
<td>WY_BFO_NSO_Slopes50</td>
<td>NSO   (1) On slopes greater than 50% as mapped by the US Geological Survey 1:24,000 scale topographic maps, US Geological Survey Digital Elevation Models, and/or as determined by a BLM evaluation of the area; (2) preventing mass slope failure and accelerated erosion.</td>
</tr>
<tr>
<td>WY_BFO_NSO_SSF</td>
<td>NSO   (1) Within 0.25 mile of any waters containing special status fish species as mapped on the Buffalo Field Office GIS database or from field evaluation, in consultation with the Wyoming Game and Fish Department; (2) protecting special status fish populations and habitat.</td>
</tr>
<tr>
<td>WY_BFO_NSO_SSP</td>
<td>NSO   (1) Within special status species plant populations as mapped on the Buffalo Field Office GIS database, or determined by BLM from field evaluation, in coordination with the Wyoming Natural Diversity Database and/or US Fish and Wildlife Service; (2) protecting special status species plant populations.</td>
</tr>
<tr>
<td>WY_BFO_NSO_SSRN</td>
<td>NSO   (1) Within a species specific spatial buffer of special status species raptor nests using US Fish and Wildlife Service Wyoming Ecological Service’s recommendations (Appendix Q (p. 633) or <a href="http://www.fws.gov/wyominges/Pages/Species/Species_SpeciesConcern/Raptors.html">www.fws.gov/wyominges/Pages/Species/Species_SpeciesConcern/Raptors.html</a>) as mapped on the Buffalo Field Office GIS database or determined by field evaluation, in coordination with the Wyoming Game and Fish Department and/or US Fish and Wildlife Service; (2) protecting nest sites of special status raptors.</td>
</tr>
<tr>
<td>WY_BFO_NSO_TCP</td>
<td>NSO   (1) On lands containing traditional cultural properties as mapped on the Buffalo Field Office GIS database; (2) protecting traditional cultural properties.</td>
</tr>
<tr>
<td>WY_BFO_TLS_BEN</td>
<td>TLS   (1) Surface-disturbing and disruptive activities are prohibited or restricted from Feb 1 to Aug 15 within 1.0 mile of active bald eagle nests; (2) as mapped on the Buffalo Field Office GIS database or determined by field evaluation, in coordination with the Wyoming Game and Fish Department and/or US Fish and Wildlife Service; (3) ensuring productivity of bald eagles.</td>
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<td>WY_BFO_TLS_BGCWEC</td>
<td>TLS (1) Surface-disturbing and disruptive activities are prohibited or restricted from Nov 15 to Apr 30 within big-game crucial winter range, or from May 1 to Jun 15 within elk calving areas (Wyoming Game and Fish Department 2009); (2) as mapped by the Wyoming Game and Fish Department and evaluated by the BLM; (3) ensuring the function and suitability of crucial big game winter ranges.</td>
</tr>
<tr>
<td>WY_BFO_TLS_EC</td>
<td>TLS (1) Surface-disturbing and disruptive activities are prohibited or restricted from May 1 to Jun 15 within elk calving areas (Wyoming Game and Fish Department 2009); (2) as mapped by the Wyoming Game and Fish Department and evaluated by the BLM; (3) ensuring the function and suitability of elk calving areas.</td>
</tr>
<tr>
<td>WY_BFO_TLS_EWR</td>
<td>TLS (1) Surface-disturbing and disruptive activities are prohibited or restricted from Nov 1 to Apr 1 within 1.0 mile from the edge of consistently used eagle winter roosts and the following consistently used riparian corridors: Clear Creek, Crazy Woman Creek, Piney Creek, Powder River, and Tongue River; (2) as mapped on the Buffalo Field Office GIS database or determined by field evaluation, in coordination with the Wyoming Game and Fish Department and/or US Fish and Wildlife Service; (3) protecting roosting eagles.</td>
</tr>
<tr>
<td>WY_BFO_TLS_NSSRN</td>
<td>TLS (1) Surface-disturbing and disruptive activities are prohibited or restricted within the US Fish and Wildlife Service Wyoming Ecological Service’s recommended spatial buffers and dates of active non-special status raptor nests. (Appendix Q (p. 633) or <a href="http://www.fws.gov/wyominges/Pages/Species/Species_SpeciesConcern/Raptors.html">www.fws.gov/wyominges/Pages/Species/Species_SpeciesConcern/Raptors.html</a>); (2) as mapped on the Buffalo Field Office GIS database or determined by BLM from field evaluation in coordination with the Wyoming Game and Fish Department and/or US Fish and Wildlife Service; (3) ensuring raptor nest productivity.</td>
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<tr>
<td>WY_BFO_TLS_PHMAC</td>
<td>TLS (1) Mar 15 to Jun 30; (2) as mapped on the Buffalo Field Office GIS database; (3) no surface use to seasonally protect Greater Sage-grouse breeding, nesting and early brood-rearing habitats (independent of habitat suitability) inside Priority Habitat Management Areas (Connectivity only), within 4 miles of an occupied lek.</td>
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<tr>
<td>WY_BFO_TLS_PHMAL</td>
<td>TLS (1) Mar 15 to Jun 30; (2) as mapped on the Buffalo Field Office GIS database; (3) no surface use to seasonally protect Greater Sage-Grouse breeding, nesting and early brood-rearing habitats (independent of habitat suitability) inside designated Priority Habitat Management Areas (Core only). Where credible data support different timeframes for this restriction, dates may be expanded by 14 days prior or subsequent to the above dates.</td>
</tr>
<tr>
<td>WY_BFO_TLS_PHMAWCA</td>
<td>TLS (1) Dec 1 to Mar 14; (2) as mapped on the Buffalo Field Office GIS database; (3) to seasonally protect Greater Sage-grouse winter concentration areas in designated Priority Habitat Management Areas (Core and Connectivity), and outside designated PHMAs (Core and Connectivity) when supporting wintering Greater Sage-grouse that attend leks within designated PHMAs (Core only).</td>
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<tr>
<td>WY_BFO_TLS_SSRN</td>
<td>TLS (1) Surface-disturbing and disruptive activities are prohibited or restricted within US Fish and Wildlife Service recommended spatial buffers and dates (Appendix Q (p. 633) or <a href="http://www.fws.gov/wyominges/Pages/Species/Species_SpeciesConcern/Raptors.html">www.fws.gov/wyominges/Pages/Species/Species_SpeciesConcern/Raptors.html</a>) of active raptor nests of special status species; (2) as mapped on the Buffalo Field Office GIS database or determined by field evaluation, in coordination with the Wyoming Game and Fish Department and/or US Fish and Wildlife Service; (3) ensuring productivity of nesting special status raptors.</td>
</tr>
<tr>
<td>WY_BFO_TLS_STG</td>
<td>TLS (1) Surface-disturbing and disruptive activities are prohibited or restricted from Apr 1 to Jul 15 (Wyoming Game and Fish Department 2009) within 2 miles of the perimeter of occupied sharp-tailed grouse leks; (2) as mapped by the Wyoming Game and Fish Department and evaluated by the BLM; (3) ensuring the function and suitability of sharp-tailed grouse nesting habitat.</td>
</tr>
<tr>
<td>WY_LFO_CSU_BRMLP2024</td>
<td>CSU (1) Surface occupancy or use will be restricted; (2) as mapped on the Lander Field Office GIS database; (3) protecting unique plant communities, cultural sites, viewshed, geologic resources, wild horse migration routes, and riparian-wetland resources of the Beaver Rim Master Leasing Plan analysis area.</td>
</tr>
<tr>
<td>WY_LFO_CSU_LRPS1013</td>
<td>CSU (1) Surface occupancy or use will be restricted; (2) as mapped on the Lander Field Office GIS database; (3) protecting limited reclamation potential soils.</td>
</tr>
<tr>
<td>WY_LFO_CSU_PYFC5058</td>
<td>CSU (1) Surface use or occupancy is restricted; (2) as mapped on the Lander Field Office GIS database; (3) protecting fossil resources within designated “very high” or “high” potential fossil yield classification areas.</td>
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<td>STIPULATION LANGUAGE</td>
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<td>WY_LFO_CSU_RHTEH5018</td>
<td>CSU (1) Surface use or occupancy will be restricted within a 2-mile buffer of Regional Historic Trails and Early Highways; (2) as mapped on the Lander Field Office GIS database; (3) protecting the Regional Historic Trails and Early Highways and their settings.</td>
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<td>WY_LFO_CSU_S15TO24P1014</td>
<td>CSU (1) Surface occupancy or use will be restricted; (2) as mapped on the Lander Field Office GIS database; (3) protecting areas containing slopes between 15 and 24 percent.</td>
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<td>WY_LFO_CSU_SR6124</td>
<td>CSU (1) Surface use or occupancy is restricted within the Sweetwater Rocks viewshed; (2) as mapped on the Lander Field Office GIS database; (3) protecting the Sweetwater Rocks periphery.</td>
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<tr>
<td>WY_LFO_CSU_VRM5066</td>
<td>CSU (1) Surface occupancy or use is restricted; (2) as mapped on the Lander Field Office GIS database; (3) protecting VRM Class I and II areas.</td>
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<td>WY_LFO_CSU1048</td>
<td>CSU (1) Surface occupancy and use will be restricted; (2) as mapped on the Lander field Office GIS database; (3) protecting 100-year floodplains and riparian-wetland areas.</td>
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<td>WY_LFO_CSU2024</td>
<td>CSU (1) Surface occupancy and use will be restricted; (2) as mapped on the Lander Field Office GIS database; (3) protecting 100-year floodplains within the Beaver Rim Master Leasing Plan analysis area.</td>
</tr>
<tr>
<td>WY_LFO_CSU5025</td>
<td>CSU (1) Surface use or occupancy will be restricted; (2) as mapped on the Lander Field Office GIS database; (3) protecting the Cedar Ridge Traditional Cultural Property periphery.</td>
</tr>
<tr>
<td>WY_LFO_NSO_ACEC7059</td>
<td>NSO (1) As mapped on the Lander Field Office GIS database; (2) protecting the relevant and important Area of Critical Environmental Concern values.</td>
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<tr>
<td>WY_LFO_NSO_BRH4095</td>
<td>NSO (1) Within 0.25-mile of identified bat maternity roosts and hibernation sites as mapped on the Lander Field Office GIS database; (2) protecting bat maternity roosts and hibernation sites.</td>
</tr>
<tr>
<td>WY_LFO_NSO_BRMLP2024</td>
<td>NSO (1) As mapped on the Lander Field Office GIS database; (2) protecting unique plant communities, cultural sites, viewshed, and geologic resources in the Beaver Rim Master Leasing Plan area.</td>
</tr>
<tr>
<td>WY_LFO_NSO_CG5034</td>
<td>NSO (1) as mapped on the Lander Field Office GIS database; (2) protecting the Castle Gardens cultural site and periphery.</td>
</tr>
<tr>
<td>WY_LFO_NSO_HTAC4045</td>
<td>NSO (1) As mapped on the Lander Field Office GIS database; (2) protecting wildlife, cultural resources, viewshed, and/or recreational use(s) in the Hudson to Atlantic City area.</td>
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<tr>
<td>WY_LFO_NSO_NTMC7002</td>
<td>NSO (1) As mapped on the Lander Field Office GIS database; (2) protecting Congressionally Designated Trails and their settings.</td>
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<td>WY_LFO_NSO_OPR4088</td>
<td>NSO (1) Within 200 feet of occupied pygmy rabbit habitat, as mapped in the Lander Field Office GIS database; (2) protecting pygmy rabbit habitat.</td>
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<td>WY_LFO_NSO_PSW4031</td>
<td>NSO (1) Within 500 feet of perennial surface waters, riparian-wetland areas, and/or playas, as mapped on the Lander Field Office GIS database; (2) protecting perennial surface waters, riparian-wetland areas, and/or playas outside of Designated Development Areas.</td>
</tr>
<tr>
<td>WY_LFO_NSO_PSWDDA4031</td>
<td>NSO (1) Within 500 feet of perennial surface waters, riparian-wetland areas, and/or playas, as mapped on the Lander Field Office GIS database; (2) protecting perennial surface waters, riparian-wetland areas, and/or playas within Designated Development Areas.</td>
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<td>WY_LFO_NSO_REC6086</td>
<td>NSO (1) As mapped on the Lander Field Office GIS database; (2) protecting developed recreation sites.</td>
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<tr>
<td>WY_LFO_NSO_SG25P1014</td>
<td>NSO (1) As mapped on the Lander Field Office GIS database; (2) protecting areas containing slopes greater than 25 percent.</td>
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<td>WY_LFO_NSO_YERMO4084</td>
<td>NSO (1) As mapped on the Lander Field Office GIS database; (2) protecting desert yellowhead population management areas.</td>
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<tr>
<td>WY_LFO_NSO1045</td>
<td>NSO (1) As mapped on the Lander Field Office GIS database; (2) protecting identified sole source aquifers.</td>
</tr>
<tr>
<td>WY_LFO_NSO2024</td>
<td>NSO (1) As mapped on the Lander Field Office GIS database; (2) protecting 100-year floodplains within the Beaver Rim Master Leasing Plan analysis area.</td>
</tr>
<tr>
<td>WY_LFO_NSO2031</td>
<td>NSO (1) As mapped on the Lander Field Office GIS database; (2) protecting resources within 0.25-mile of National Register of Historic Places-eligible Native America cultural resource sites.</td>
</tr>
<tr>
<td>WY_LFO_NSO4070</td>
<td>NSO (1) As mapped on the Lander Field Office GIS database; (2) protecting wildlife parturition areas and viewshed south of Green Mountain.</td>
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<td>NSO (1) As mapped on the Lander Field Office GIS database; (2) protecting the Cedar Ridge Traditional Cultural Property.</td>
</tr>
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<td>WY_LFO_NSO5050</td>
<td>NSO (1) As mapped on the Lander Field Office GIS database; (2) protecting Sacred, Spiritual, and Traditional Cultural Properties.</td>
</tr>
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<td>WY_LFO_TLS_BGCW4061</td>
<td>TLS (1) Nov 15 to Apr 30; (2) as mapped on the Lander Field Office database; (3) protecting big game crucial winter range.</td>
</tr>
<tr>
<td>WY_LFO_TLS_BGCWP4061</td>
<td>TLS (1) May 1 to Jun 30; (2) as mapped on the Lander Field Office database; (3) protecting big game parturition areas.</td>
</tr>
<tr>
<td>WY_LFO_TLS_EWR4062</td>
<td>TLS (1) Nov 15 to Apr 30; (2) as mapped on the Lander Field Office GIS database; (3) protecting elk winter range.</td>
</tr>
<tr>
<td>WY_LFO_TLS_FFS4053</td>
<td>TLS (1) Sep 15 to Nov 30; (2) as mapped on the Lander Field Office GIS database; (3) protecting fall spawning habitat within the identified bankfull channel width of fish-bearing streams.</td>
</tr>
<tr>
<td>WY_LFO_TLS_FSS4053</td>
<td>TLS (1) Mar 15 to Jul 31; (2) as mapped on the Lander Field Office GIS database; (3) protecting spring spawning habitat within the identified bankfull channel width of fish-bearing streams.</td>
</tr>
<tr>
<td>WY_LFO_TLS_MPN4094</td>
<td>TLS (1) Apr 10 to Jul 10; (2) within 0.25-mile of identified mountain plover habitat, as mapped on the Lander Field Office GIS database, (3) protecting mountain plover nesting habitat.</td>
</tr>
<tr>
<td>WY_LFO_TLS_PHMAWCA</td>
<td>TLS (1) Dec 1 to Mar 14; (2) as mapped on the Lander Field Office GIS database; (3) seasonally protecting Greater Sage-grouse winter concentration areas.</td>
</tr>
<tr>
<td>WY_LFO_TLS_RN4071</td>
<td>TLS (1) Within 1 mile of bald eagle and ferruginous hawk nests and 0.75-mile of all other active raptor nests during the following time periods, Apr 1 to Aug 31 for northern goshawk, Apr 1 to Sep 15 for burrowing owl, Feb 1 to Aug 15 for bald and/or golden eagles, and Feb 1 to Jul 31 for all other raptors; (2) as mapped on the Lander Field Office GIS database; (3) protecting active raptor nests.</td>
</tr>
<tr>
<td>WY_NFO_CSU_PHMAC</td>
<td>CSU (1) Surface occupancy or use will be restricted. The cumulative value of all applicable surface disturbances, existing or future, must not exceed 5 percent of the Disturbance Density Calculation Tool (DDCT) area, as described in the DDCT manual; (2) as mapped on the Newcastle Field Office GIS database; (3) to protect Greater Sage-grouse designated Priority Habitat Management Areas (Connectivity only) from habitat fragmentation and loss. This lease does not guarantee the lessee the right to occupy the surface of the lease for the purpose of producing oil and natural gas within Greater Sage-grouse designated PHMAs (Connectivity only). The surface occupancy restriction criteria identified in this stipulation may preclude surface occupancy and may be beyond the ability of the lessee to meet due to existing surface disturbance on Federal, State, or private lands within designated PHMAs (Connectivity only) or surface disturbance created by other land users. The BLM may require the lessee or operator to enter into a unit agreement or drilling easement to facilitate the equitable development of this and surrounding leases.</td>
</tr>
<tr>
<td>WY_NFO_TLS_PHMAC</td>
<td>TLS (1) Mar 15 to Jun 30; (2) as mapped on the Newcastle Field Office GIS database; (3) no surface use to seasonally protect Greater Sage-grouse breeding, nesting and early brood-rearing habitats (independent of habitat suitability) inside Priority Habitat Management Areas (Connectivity only), within 4 miles of an occupied lek.</td>
</tr>
<tr>
<td>WY_SW_CSU_PHMA</td>
<td>CSU (1) Surface occupancy or use will be restricted to no more than an average of one disturbance location per 640 acres using the Disturbance Density Calculation Tool (DDCT), and the cumulative value of all applicable surface disturbances, existing or future, must not exceed 5 percent of the DDCT area, as described in the DDCT manual; (2) as mapped on the applicable Field Office GIS database; (3) to protect Greater Sage-grouse designated Priority Habitat Management Areas (Core only) from habitat fragmentation and loss. This lease does not guarantee the lessee the right to occupy the surface of the lease for the purpose of producing oil and natural gas within Greater Sage-grouse designated PHMAs (Core only). The surface occupancy restriction criteria identified in this stipulation may preclude surface occupancy and may be beyond the ability of the lessee to meet due to existing surface disturbance on Federal, State, or private lands within designated PHMAs (Core only) or surface disturbance created by other land users. The BLM may require the lessee or operator to enter into a unit agreement or drilling easement to facilitate the equitable development of this and surrounding leases.</td>
</tr>
<tr>
<td>STIPULATION CODE</td>
<td>STIPULATION LANGUAGE</td>
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<tr>
<td>WY_SW_NSOGHMAL</td>
<td>NSO (1) As mapped on the applicable Field Office GIS database; (2) to protect occupied Greater Sage-grouse leks and associated seasonal habitat, life-history, or behavioral needs of Greater Sage-grouse in proximity to leks from habitat fragmentation and loss, and protect Greater Sage-grouse populations from disturbance within a 0.25-mile radius of the perimeter of occupied Greater Sage-grouse leks outside designated Priority Habitat Management Areas (Core and Connectivity).</td>
</tr>
<tr>
<td>WY_SW_NSOPHMAL</td>
<td>NSO (1) As mapped on the applicable Field Office GIS database; (2) to protect occupied Greater Sage-grouse leks and associated seasonal habitat, life-history, or behavioral needs of Greater Sage-grouse in proximity to leks from habitat fragmentation and loss, and protect Greater Sage-grouse populations from disturbance within a 0.6-mile radius of the perimeter of occupied Greater Sage-grouse leks inside designated Priority Habitat Management Areas (Core and Connectivity).</td>
</tr>
<tr>
<td>WY_SW_TLS_GHMAL</td>
<td>TLS (1) Mar 15 to Jun 30; (2) as mapped on the applicable Field Office GIS database; (3) no surface use to seasonally protect Greater Sage-grouse breeding, nesting and early brood-rearing habitats outside designated Priority Habitat Management Areas (Core and Connectivity), within 2 miles of an occupied lek.</td>
</tr>
<tr>
<td>WY_SW_TLS_PHMAL</td>
<td>TLS (1) Mar 15 to Jun 30; (2) as mapped on the applicable Field Office GIS database; (3) no surface use to seasonally protect Greater Sage-grouse breeding, nesting and early brood-rearing habitats (independent of habitat suitability) inside designated Priority Habitat Management Areas (Core only).</td>
</tr>
<tr>
<td>WY_SW_TLS_PHMAWCA</td>
<td>TLS (1) Dec 1 to Mar 14; (2) as mapped on the applicable Field Office GIS database; (3) no surface use to seasonally protect Greater Sage-grouse winter concentration areas in designated Priority Habitat Management Areas (Core only), and outside designated PHMAs (Core only) when supporting wintering Greater Sage-grouse that attend leks within designated PHMAs (Core only).</td>
</tr>
</tbody>
</table>
5.2 Parcel Resource Values/Stipulation Summary Tables
## High Plains District Oil & Gas Lease Sale

### Affected Resources Table

<table>
<thead>
<tr>
<th>Parcel</th>
<th>Field Office</th>
<th>Coal</th>
<th>Cultural Sites/NMT</th>
<th>Paleo PFYC Class I or II</th>
<th>Recreation</th>
<th>VRM Class I or II</th>
<th>Socio-Economic</th>
<th>Soils</th>
<th>Lands &amp; Realty</th>
<th>Special Management Areas</th>
<th>Fish CSS</th>
<th>Big Game Crucial Range CSS, TLS</th>
<th>Elk Cattle CSS, TLS</th>
<th>Short-Tailed Grouse CSS, TLS</th>
<th>Burdened by Hunting, CSS, TLS</th>
<th>Elk Cattle CSS, TLS &amp; Special Species Reserve</th>
<th>Burdened by Hunting, CSS, TLS, TEL &amp; Special Species Reserve</th>
<th>Prarie Dog Colonies CSS</th>
<th>Special Status Species Amphibians, Reptiles, Bat CSS</th>
<th>Vegetation/Riparian Waters</th>
<th>Existing Wells</th>
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DOI-BLM-WY-0000-2018-0004-EA  5-26
# High Desert District: Lease Notices, Timing Limitation Stipulations (TLS), Controlled Surface Use (CSU), and Surface Occupancy (NSO) Stipulations Applied

| Parcel# | Lease Tracts | Lease Tracts | Parcels | DUG District | DUG District | DUG District | DUG District | DUG District | DUG District | DUG District | DUG District | DUG District | DUG District | DUG District | DUG District | DUG District | DUG District | DUG District | DUG District | DUG District | DUG District | DUG District | DUG District | DUG District | DUG District | DUG District | DUG District |
|---------|--------------|--------------|---------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|

DOI-BLM-WY-0000-2018-0004-EA 5-27
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5.3 Air Resources Attachment: Air Quality Related Values: Visibility, Hazardous Air Pollutants and Deposition

5.3.1 Visibility – Wyoming

Regional haze is visibility impairment caused by the cumulative air pollutant emissions from numerous sources over a wide geographic area. Visibility impairment is caused by particles and gases in the atmosphere that scatter, distort, or absorb light. The primary cause of regional haze in many parts of the country is light scattering resulting from fine particles (i.e., PM2.5) in the atmosphere. Additionally, coarse particles between 2.5 and 10 microns in diameter can contribute to light extinction. Coarse particles and PM2.5 can be naturally occurring or the result of human activity. The natural levels of these species result in some level of visibility impairment, in the absence of any human influences and will vary with season, daily meteorology, and geography (Malm 1999).

There are several National Parks, National Forests, recreation areas, and wilderness areas within and surrounding the state of Wyoming. National Parks, National Monuments, and some state designated Wilderness Areas are designated as Class I (see figure, below). 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). Under BLM Manual Section 8560.36, BLM-administered 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.

The Interagency Monitoring of Protected Visual Environments (IMPROVE) program was initiated in 1985. This program implemented an extensive long term monitoring program to establish the current visibility conditions, track changes in visibility and determine causal mechanism for the visibility impairment in the National Parks and Wilderness Areas. Observations over time have shown that visibility is not as good as it could be compared to natural background conditions (i.e., visibility is impaired relative to natural background conditions). In 1999, the EPA issued a Regional Haze Rule to protect visibility in over 150 national parks and wilderness areas. The Regional Haze Rule requires states to establish Reasonable Progress Goals for improving visibility, with the overall goal of attaining natural background visibility conditions by 2064.

The Clean Air Act includes “as a National Goal the prevention of any future, and the remedying of any existing, impairment of visibility in mandatory Class I federal areas in which impairment results from manmade air pollution.” The CAA gives federal managers the affirmative responsibility, but no regulatory authority, to protect air quality-related values, including visibility, from degradation. A wide variety of pollutants can impact visibility, including PM, NO2, NO3, and SO4. Fine particles suspended in the atmosphere decrease visibility by blocking, reflecting, or absorbing light. Regional haze occurs when pollutants from widespread emission sources become mixed in the atmosphere and travel long distances.

National Parks, Wilderness Areas, and National Parks
Visibility is expressed as deciviews (dv), which is a measure for describing perceived changes in visibility. Deciview values are calculated from either measured or estimated light extinction values in units of inverse megameters (Mm⁻¹). A dv value of zero indicates a pristine atmosphere.

The figures below display annual average visibility in deciviews for the 20 percent best days, 20 percent worst days, and all days for each year during the late 20th and early 21st Century for the following IMPROVE sites: Bridger Wilderness, Boulder Lake, North Absaroka, Thunder Basin, Wind Cave, and Cloud Peak. Note: the 2017 IMPROVE data was not available, and the monitoring at Cloud Peak stopped in 2014. Generally, the IMPROVE data show a slow increase in visibility on the “Clearest Days” and a near-neutral trend in visibility for the “Haziest Days.”

Annual Average Visibility (deciviews) for the Bridger Wilderness IMPROVE Site (1989-2016).
Annual Average Visibility (deciviews) for the Boulder Lake IMPROVE Site (2010-2016).
Annual Average Visibility (deciviews) for the North Absaroka IMPROVE Site (2002-2016).

![North Absaroka Visibility on Haziest and Clearest Days](image1)


![Thunder Basin Visibility on Haziest and Clearest Days](image2)
Annual Average Visibility (deciviews) for the Wind Cave, SD IMPROVE Site (1999-2016).

![Wind Cave Visibility Graph](image1)

Annual Average Visibility (deciviews) for the Cloud Peak IMPROVE Site (2003-2014).

![Cloud Peak Visibility Graph](image2)

Source: Federal Land Manager Environmental Database 2018
IMPROVE background reference: http://vista.cira.colostate.edu/Improve/improve-program/

5.3.2 Hazardous Air Pollutants (HAPs)-High Desert District

Many VOCs are HAPs, and are associated with human-made sources. The 2008 and 2011 National Emission Inventories and later WDEQ emissions inventories, indicate that VOC emissions within the region are primarily from area sources associated with oil and gas development activities. Therefore, HAP concentrations are expected to be greatest near oil and gas development sources and are a potential air quality concern for the region.

HAPs are not routinely monitored within the State of WY except where VOC production is a concern due to non-attainment. Because of the ongoing air quality concerns in the HDD, WDEQ conducted HAP monitoring for several sites in the HDD from February 2009 until March 2010. Error! Reference source not found.10 summarizes observed HAP concentrations for the Boulder, Daniel South, and Pinedale monitoring sites. Measurements were taken every six days and the values represent averages for the entire monitoring period.
Table: Example HAP Concentrations (micrograms per cubic meter) for Sublette County, Wyoming

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Benzene (µg/m³)</th>
<th>Ethylbenzene (µg/m³)</th>
<th>Formaldehyde (µg/m³)</th>
<th>Hexane (µg/m³)</th>
<th>Toluene (µg/m³)</th>
<th>Xylene (µg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boulder</td>
<td>2.12</td>
<td>0.77</td>
<td>0.99</td>
<td>1.29</td>
<td>6.42</td>
<td>4.46</td>
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<tr>
<td>Daniel South</td>
<td>1.25</td>
<td>0.52</td>
<td>1.37</td>
<td>0.81</td>
<td>4.30</td>
<td>2.76</td>
</tr>
<tr>
<td>Pinedale</td>
<td>2.13</td>
<td>1.00</td>
<td>1.59</td>
<td>1.47</td>
<td>6.50</td>
<td>6.38</td>
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</table>

Source: REF 1020  
µg/m³ micrograms per cubic meter

5.3.3 Deposition and Lake Chemistry – Wyoming

Sulfur and nitrogen compounds that can be deposited on terrestrial and aquatic ecosystems include nitric acid (HNO₃), nitrate (NO₃⁻), ammonium (NH₄⁺), and sulfate (SO₄²⁻). Nitric acid (HNO₃) and nitrate (NO₃⁻) are not emitted directly into the air, but form in the atmosphere from industrial and automotive emissions of nitrogen oxides (NOₓ); and sulfate (SO₄²⁻) is formed in the atmosphere from industrial emission of sulfur dioxide (SO₂). Deposition of HNO₃, NO₃⁻ and SO₄²⁻ can adversely affect plant growth, soil chemistry, lichens, aquatic environments, and petroglyphs (ancient carvings and/or engravings on rock surfaces). Ammonium (NH₄⁺) is volatilized from animal feedlots and from soils following fertilization of crops.

Wet atmospheric deposition is measured at National Atmospheric Deposition Program (NADP) sites: Pinedale, Sink’s Canyon, South Pass, Newcastle, and Wind Cave. Dry deposition is measured at three Clean Air Status and Trends Network (CASTNET) sites in Pinedale (Sublette County), Newcastle (Weston County), and Basin (Big Horn County). Wet deposition is characterized by the concentration of nitrate ion (NO₃⁻), sulfate ion (SO₄²⁻), and ammonium (NH₄⁺) ions in precipitation samples. The figures below display annual average concentration data for nitrate, sulfate, and ammonium ions from precipitation samples for each year during the period from the late 20th to early 21st Century Wyoming and South Dakota NADP sites. For each year, the data represent the average concentration based on all sampling periods. Units are milligrams per liter (mg/L). The data indicate a decrease in sulfate and nitrate ions for all NADP sites in precipitation samples. However, concentrations for the ammonium ion are either steady or slowly increasing at sites.

The figures below display annual average concentration data for Sulfur Dioxide, Particulate Sulfate, Particulate Nitric Acid, Total Nitrate, and Particulate Ammonium for the three Wyoming CASTNET sites. The concentration measurements are used to estimate dry deposition. For each year, the data represent the average concentration based on all sampling periods. Units are µg/m³. The concentration data indicate a decrease for all pollutant species at Pinedale and Newcastle. However, the Basin concentrations increase from 2016 to 2017.

Annual Average Concentration in Wet Deposition (milligrams per liter) for NADP Monitoring Site at Pinedale
Annual Average Concentration in Wet Deposition (milligrams per liter) for NADP Monitoring Site at Sink’s Canyon.
Annual Average Concentration in Wet Deposition (milligrams per liter) for NADP Monitoring Site at South Pass.

NTN Site WY02

NTN Site WY97

NTN Site WY97
NTN Site WY97

Annual Average Concentration in Wet Deposition (milligrams per liter) for NADP Monitoring Site at Newcastle.

NTN Site WY99

NTN Site WY99

NTN Site WY99

Annual Average Concentration in Wet Deposition (milligrams per liter) for NADP Monitoring Site at Newcastle.
Annual Average Concentration in Wet Deposition (milligrams per liter) for NADP Monitoring Site at Wind Cave, SD.
Source: REF 1014
Annual Average Concentration in Dry Deposition (micrograms per cubic meter) for the CASTNET Monitoring Site at Pinedale.

![Pinedale](image)

Annual Average Concentration in Dry Deposition (micrograms per cubic meter) for the CASTNET Monitoring Site at Newcastle.

![Newcastle](image)

Annual Average Concentration in Dry Deposition (micrograms per cubic meter) for the CASTNET Monitoring Site at Basin.
Seven lakes have been identified as being acid sensitive. Applicable thresholds for the assessment of changes in acid neutralizing capacity (ANC) of sensitive lakes include: 10 percent change in ANC for lakes with background ANC values greater than 25 micro equivalents per liter [µeq/L], and less than a 1 µeq/L change in ANC for lakes with background ANC values equal to or less than 25 µeq/L.

Available ANC values for each of the nearest sensitive lakes are provided in the table, below, along with the number of samples used in the calculation of the 10th percentile lowest ANC values. Of the seven lakes listed in the table, below, only Upper Frozen Lake is considered to be extremely sensitive to atmospheric deposition by the USFS since the background ANC is less than 25 µeq/L.

Table: Background ANC Values for Acid Sensitive Lakes

<table>
<thead>
<tr>
<th>Wilderness Area</th>
<th>Lake</th>
<th>Latitude (Deg, Min, Sec)</th>
<th>Longitude (Deg, Min, Sec)</th>
<th>10th Percentile Lowest ANC Value (µeq/l)</th>
<th>Number of Samples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bridger</td>
<td>Deep</td>
<td>42°43'10&quot;</td>
<td>109°10'15&quot;</td>
<td>57.7</td>
<td>68</td>
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<td>Bridger</td>
<td>Black Joe</td>
<td>42°44'22&quot;</td>
<td>109°10'16&quot;</td>
<td>62.6</td>
<td>78</td>
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<tr>
<td>Bridger</td>
<td>Lazy Boy</td>
<td>43°19'57&quot;</td>
<td>109°43'47&quot;</td>
<td>9.1</td>
<td>5</td>
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<tr>
<td>Bridger</td>
<td>Upper Frozen</td>
<td>42°41'13&quot;</td>
<td>109°09'39&quot;</td>
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<td>12</td>
</tr>
<tr>
<td>Bridger</td>
<td>Hobbs</td>
<td>43°02'08&quot;</td>
<td>109°40'20&quot;</td>
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<td>80</td>
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<td>Fitzpatrick</td>
<td>Ross</td>
<td>43°23'35&quot;</td>
<td>109°39'29&quot;</td>
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</tr>
<tr>
<td>Popo Agie</td>
<td>Lower Saddlebag</td>
<td>42°37'24&quot;</td>
<td>108°59'42&quot;</td>
<td>54.6</td>
<td>64</td>
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<td>Cloud Peak</td>
<td>Florence Lake</td>
<td>44°20'53&quot;</td>
<td>107°10'50&quot;</td>
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</table>
Table: Background ANC Values for Acid Sensitive Lakes

<table>
<thead>
<tr>
<th>Wilderness Area</th>
<th>Lake</th>
<th>Latitude (Deg, Min, Sec)</th>
<th>Longitude (Deg, Min, Sec)</th>
<th>10th Percentile Lowest ANC Value (µeq/l)</th>
<th>Number of Samples</th>
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<tbody>
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<td>Cloud Peak</td>
<td>Emerald Lake</td>
<td>44º27'26&quot;</td>
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</table>

*Sources: Source: USFS 2011 and Views (2014b)*

ANC          Acid Neutralizing Capacity
Deg          Degree
Min          Minute
Sec          Second
µeq/l        Microequivalent per liter
5.4 Wildlife Habitat Maps
### 5.5 Lands with Wilderness Characteristics (LWCs) Review

#### 5.5.1 High Plains District

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<th>Outstanding opportunity for solitude or primitive recreation (yes/no)</th>
<th>Contains natural features of scientific, educational, scenic, or historical value (yes/no)</th>
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5.5.2 Wind River/Bighorn Basin District

None of the parcels nominated in the WFO are identified as having any LWC characteristics

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5.6 Hydraulic Fracturing White Paper (July 5, 2013)

BACKGROUND
Hydraulic fracturing (HF) is a well stimulation process used to maximize the extraction of underground resources – oil, natural gas and geothermal energy. The HF process includes the acquisition of water/mixing of chemicals, production zone fracturing, and HF flowback disposal.

In the United States, HF has been used since the 1940’s. Early on, the HF process utilized pressures that are of a much smaller magnitude than those used today.

The HF process involves the injection of a fracturing fluid and propping agent into the hydrocarbon bearing formation under sufficient pressure to further open existing fractures and/or create new fractures. This allows the hydrocarbons to more readily flow into the wellbore. HF has gained interest recently as hydrocarbons previously trapped in low permeability tight sand and shale formations are now technically and economically recoverable. As a result, oil and gas production has increased significantly in the United States. The state of Wyoming classifies all gas production zones as Class 5 groundwater zones; this means these zones can be highly impacted by oil and gas activities and are exempt from regulation under the Clean Water Act. However, operations within these zones cannot cause other zones to lose their use classification.

Prior to the development of hydrocarbon bearing tight gas and shale formations, domestic production of conventional resources had been declining. In response to this decline, the federal government in the 1970’s through 1992, passed tax credits to encourage the development of unconventional resources. It was during this time that the HF process was further advanced to include the high-pressure multi-stage frac jobs used today.

Generally, HF can be described as follows:

1. Water, proppant, and chemical additives are pumped at extremely high pressures down the wellbore.
2. The fracturing fluid is pumped through perforated sections of the wellbore and into the surrounding formation, creating fractures in the rock. The proppant holds the fractures open during well production.
3. Company personnel continuously monitor and gauge pressures, fluids and proppants, studying how the sand reacts when it hits the bottom of the wellbore, slowly increasing the density of sand to water as the frac progresses.
4. This process may be repeated multiple times, in “stages” to reach maximum areas of the formation(s). The wellbore is temporarily plugged between each stage to maintain the highest fluid pressure possible and get maximum fracturing results in the rock.
5. The plugs are drilled or removed from the wellbore and the well is tested for results.
6. The pressure is reduced and the fracturing fluids are returned up the wellbore for disposal or treatment and re-use, leaving the sand in place to prop open the fractures and allow the oil/gas to flow.

OPERATIONAL ISSUES
Wells that undergo HF may be drilled vertically, horizontally, or directionally and the resultant fractures induced by HF can be vertical, horizontal, or both. Wells in Wyoming (WY) may extend to depths greater than 20,000 feet or less than 1,000 feet, and horizontal sections of a well may extend several thousand feet from the production pad on the surface.

The total volume of fracturing fluids is generally 95-99% water. The amount of water needed to fracture a well in WY depends on the geologic basin, the formation, and depth and type of well (vertical, horizontal, directional), and the proposed completion process.

In general, approximately 50,000 to 300,000 gallons may be used to fracture shallow coalbed methane wells in the Powder River Basin, while approximately 800,000 to 2 million gallons may be used to fracture deep tight sand gas wells in southwestern WY. In the Niobrara oil play, approximately 250,000 gallons may be used to fracture a vertical well, while up to 5 million gallons may be used to fracture a horizontal well.

Proppant, consisting of synthetic or natural silica sand, may be used in quantities of a few hundred tons for a vertical well to a few thousand tons for a horizontal well.

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Drilling muds, drilling fluids, water, proppant and hydraulic fracturing fluids are stored in onsite tanks or lined pits during the drilling and/or completion process. Equipment transport and setup can take several days, and the actual HF and flowback process can occur in a few days up to a few weeks. For oil wells, the flowback fluid from the HF operations is treated in an oil-water separator before it is stored in a lined pit or tank located on the surface. Where gas wells are flowed back using a “green completion process” fluids are run through a multi-phase separator, which are then piped directly to enclosed tanks or to a production unit.

**Gas emissions** associated with the HF process are captured when the operator utilizes a green completion process. Where a green completion process is not utilized, gas associated with the well may be vented and/or flared until “saleable quality” product is obtained in accordance with federal and state rules and regulations. The total volume of emissions from the equipment used (trucks, engines) will vary based on the pressures needed to fracture the well, and the number of zones to be fractured. Emissions associated with a project, and HF if proposed, will be analyzed through a site specific NEPA document to ensure that the operation will not cause a violation of the Clean Air Act.

Under either completion process, wastewaters from HF may be disposed in several ways. For example, the flowback fluids may be stored in tanks pending reuse; the resultant waste may be re-injected using a permitted injection well, or the waste may be hauled to a licensed facility for treatment, disposal and/or reuse.

Disposal of the waste stream following establishment of “sale-quality” product, would be handled in accordance with Onshore Order #7 regulations and other state/federal rules and regulations.

**FRACTURING FLUIDS**

As indicated above, the fluid used in the HF process is approximately 95 to 99 percent water and a small percentage of special-purpose chemical additives11, 12 and proppant. There is a broad array of chemicals that can be used as additives in a fracture treatment including, but not limited to, hydrochloric acid, anti-bacterial agents, corrosion inhibitors, gelling agents (polymers), surfactants, and scale inhibitors. The 1 to 5 percent of chemical additives translates to a minimum of 5,000 gallons of chemicals for every 1.5 million gallons of water used to fracture a well (Paschke, Dr. Suzanne. USGS, Denver, Colorado. September 2011). Water used in the HF process is generally acquired from surface water or groundwater in the local area.

**RE-FRACTURING**

Re-fracturing of wells (RHF) may be performed after a period of time to restore declining production rates. RHF success can be attributed to enlarging and reorienting existing fractures while restoring conductivity due to proppant degradation and fines plugging.

Prior to RHF, the wellbore may be cleaned out. Cleaning out the wellbore may recover over 50% of the initial frac sand. Once cleaned, the process of RHF is the same as the initial HF. The need for RHF cannot be predicted.

**WATER AVAILABILITY AND CONSUMPTION ESTIMATES**

The Wyoming Framework Water Plan, A Summary, (Wyoming Water Development Commission, October 2007), indicates that approximately 15 million acre-feet per year of water becomes either surface water or groundwater and is available for use. This estimate includes water that flows into the state and the precipitation that runs off as stream flow or infiltrates as groundwater; it does not include volumes lost to evapotranspiration.

Water flowing out of WY is estimated to be 13,678,200 acre-feet per year. Wyoming’s share of this supply under existing water compacts is estimated to be 3,313,500 acre-feet per year; approximately 10, 364,700 acre-feet flows downstream out of the state.

The industrial water use sector includes electric power generation, coal mining, conventional oil and gas production, uranium mining, trona mining and soda ash production, bentonite mining, gypsum mining, coalbed methane (CBM) production, manufacturing of aggregate, cement, and concrete, and road and bridge construction.

Total current industrial surface water use for Wyoming is estimated to be 125,000 acre-feet per year. Total current industrial groundwater water use is estimated to be 246,000 acre-feet per year.

According to the state water plan, it appears likely that any new water-intensive industrial developments in the state over the next 30 years will fall into the electric power generation and/or chemical products categories. The other two intensive water use industries, primary metals and paper producers, tend to locate near the source of their largest process inputs – metals and wood respectively. The total projected industrial use under the Mid Scenario is 331,000 acre-feet per year. The Mid-Scenario is a middle of the road estimate versus the projected low or high scenarios.

11 FracFocus Chemical Registry. Hydraulic Fracturing Water Usage
Water needs for future fracturing jobs were estimated for this discussion paper using the current Reasonable Foreseeable Development (RFD) scenario numbers taken from each of the nine WY RMPs and multiplied by the maximum volume of water necessary based on information located at fracfocus.org. The table is provided, below. Based on a statewide RFD of 25,478 non-CBM wells and 18,299 CBM wells, the maximum projected water needs for HF is 401,319 acre-feet of water. This number is an estimate based upon maximum projected water needs per HF job, and assumes that 100% of the water is freshwater.

According to the WOGCC, as of August 19, 2018, there are approximately 457 Disposal wells in the state disposing of oil and gas waste water. Data obtained from the Wyoming Oil and Gas Conservation Commission, for a period ending June 30, 2018, indicates that 4,979,807,439 barrels of water have been injected into underground formations for disposal purposes. These injection wells may also utilize HF depending upon the specific geology of the disposal zone; however, subsequent disposal operations utilize injection pressures below the fracture stress of the receiving formation to ensure containment in the targeted zone. Each formation for which injection is approved must receive an aquifer exemption from the Environmental Protection Agency documenting that the injectate will be properly contained and that the formation receiving the water is not of useable quality (DEQ Class 4 Use).

POTENTIAL SOURCES OF WATER FOR HYDRAULIC FRACUTRING

Freshwater-quality water is required to drill the surface-casing section of the wellbore per federal regulations; other sections of the wellbore (intermediate and/or production strings) would be drilled with appropriate quality makeup water as necessary. This is done to protect usable water zones from contamination, to prevent mixing of zones containing different water quality/use classifications, and to minimize total freshwater volumes. With detailed geologic well logging during drilling operations, geologists/mud loggers on location identify the bottoms of these usable water zones, which aids in the proper setting of casing depths.

Several sources of water are available for drilling and/or HF in WY. Because WY’s water rights system is based in the prior appropriation doctrine, water cannot be diverted from a stream/reservoir or pumped out of the ground for drilling and/or HF without reconciling that diversion with the prior appropriation doctrine. Like any other water user, companies that drill or hydraulically fracture oil and gas wells must adhere to WY water laws when obtaining and using specific sources of water.

Below is a discussion of the sources of water that could potentially be used for HF. The decision to use any specific source is dependent on BLM authorization at the APD stage and the ability to satisfy the water appropriation doctrine. BLM must also consult in accordance with the Endangered Species Act (ESA) as amended (16 U.S.C. 1531 et seq.) with the U.S Fish and Wildlife Service (FWS on projects resulting in consumptive water use over de minimus levels, in the Platte and Colorado River Basins of WY. Where this is an issue, USFWS was consulted during the preparation of the appropriate RMP and would again be consulted on a case by case basis. From an operators’ standpoint, the decision regarding which water source will be used is primarily driven by the economics associated with procuring a specific water source.

Water transported from outside the state. The operator may transport water from outside the state. As long as the transport and use of the water carries no legal obligation to Wyoming, this is an allowable source of water from a water rights perspective.

Irrigation water leased or purchased from a landowner. The landowner may have rights to surface water, delivered by a ditch or canal that is used to irrigate land. The operator may choose to enter into an agreement with the landowner to purchase or lease a portion of that water. This is allowable, however, in nearly every case, the use of an irrigation water right is likely limited to irrigation uses and cannot be used for well drilling and HF operations. To allow its use for drilling and HF, the owner of the water right and the operator must apply to change the water right through a formal process.

Treated water or raw water leased or purchased from a water provider. The operator may choose to enter into an agreement with a water provider to purchase or lease water from the water provider’s system. Municipalities and other water providers may have a surplus of water in their system before it is treated (raw water) or after treatment that can be used for drilling and HF operations. Such an arrangement would be allowed only if the operator’s use were compliant with the water provider’s water rights.

Water treated at a waste water treatment plant leased or purchased from a water provider. The operator may choose to enter into an agreement with a water provider to purchase or lease water that has been used by the public, and then treated as wastewater. Municipalities and other water providers discharge their treated waste water into the streams where it becomes part of the public resource, ready to be appropriated once again in the priority system. But for many municipalities a portion of the water that is discharged has the character of being “reusable.” As a result, it is possible that after having been discharged to the stream, it could be diverted by the operator to be used for drilling and HF operations. Such an arrangement would only be appropriate with the approval of the WY State Engineer’s Office (WSEO) and would be allowed only if the water provider’s water rights include uses for drilling and HF operations.
New diversion of surface water flowing in streams and rivers. New diversion of surface waters in most parts of the state are rare because the surface streams are already “over appropriated,” that is, the flows do not reliably occur in such a magnitude that all of the vested water rights on those streams can be satisfied. Therefore, the only time that an operator may be able to divert water directly from a river is during periods of high flow and less demand. These periods do occur but not reliably or predictably.

Produced Water. The operator may choose to use water produced in conjunction with oil or gas production at an existing oil or gas well. The water that is produced from an oil or gas well is under the administrative purview of the WSEO and is either non-tributary, in which case, it is administered independent of the prior appropriation doctrine; or is tributary, in which case, the depletions from its withdrawal must be fully augmented if the depletions occur in an over-appropriated basin. The result in either case is that the produced water is available for consumption for other purposes, not just oil and gas operations. The water must not be encumbered by other needs and a the operator must obtain a proper well permit from the WSEO before the water can be used for drilling and HF operations.

Reused or Recycled Drilling Water. Water that is used for drilling of one well may be recovered and reused in the construction of subsequent wells. The BLM encourages reuse and recycling of both the water used in well drilling and the water produced in conjunction with oil or gas production. However, as described above, the operator must obtain the right to use the water for this purpose.

On-Location Water Supply Wells. Operators may apply for, and receive, permission from the WSEO to drill and use a new water supply well. These wells are usually drilled on location to provide an on-demand supply. These industrial-type water supply wells are typically drilled deeper than nearby domestic and/or stock wells to minimize drawdown interference, and have large capacity pumps. The proper construction, operation and maintenance, backflow prevention and security of these water supply wells are critical considerations at the time they are proposed to minimize impacts to the well and/or the waters in the well and are under the jurisdiction of the WSEO. Plugging these wells are also under the jurisdiction of the WSEO.

POTENTIAL IMPACTS TO USABLE WATER ZONES
Impacts to freshwater supplies can originate from point sources, such as chemical spills, chemical storage tanks (aboveground and underground), industrial sites, landfills, household septic tanks, and mining activities. Impacts to usable waters may also occur through a variety of oil and gas operational sources which may include, but are not limited to, pipeline and well casing failure, and well (gas, oil and/or water) drilling and construction of related facilities. Similarly, improper construction and management of open fluids pits and production facilities could degrade ground water quality through leakage and leaching.13

Should hydrocarbons or associated chemicals for oil and gas development, including HF, exceeding EPA/WDEQ standards for minimum concentration levels migrate into culinary water supply wells, springs, or usable water systems, it could result in these water sources becoming non-potable. Water wells developed for oil and gas drilling could also result in a draw down in the quantity of water in nearby residential areas depending upon the geology; however it is not currently possible to predict whether or not such water wells would be developed.

Usable groundwater aquifers are most susceptible to pollution where the aquifer is shallow (within 100 feet of the surface depending on surface geology) or perched, are very permeable, or connected directly to a surface water system, such as through floodplains and/or alluvial valleys or where operations occur in geologies which are highly fractured and/or lack a sealing formation between the production zone and the usable water zones/supplies. The potential for this impact is likely dependent on the local hydraulic gradients where those fluids are dissolved in the water column. To date, this is an unproven theory.

Potential impacts on usable groundwater resources from fluid mineral extraction activities can result from the five following scenarios:

- Contamination of aquifers through the introduction of drilling and/or completion fluids through spills or drilling problems such as lost circulation zones.
- Communication of the induced hydraulic fractures with existing fractures potentially allowing frac fluid migration into usable water zones/supplies. The potential for this impact is likely dependent on the local hydraulic gradients where those fluids are dissolved in the water column. To date, this is an unproven theory.
- Cross-contamination of aquifers/formations that may result when fluids from a deeper aquifer/formation migrate into a shallower aquifer/formation due to improperly cemented well casings.
- Localized depletion of unconfined groundwater availability.
- Progressive contamination of deep confined, shallow confined, and unconfined aquifers if the deep confined aquifers are not completely cased off, and geologically isolated, from deeper units. An example of this would be salt water intrusion resulting from sustained drawdown associated with the pumping of groundwater.

13 See Subject RMP, Chapter 4, Environmental Consequences, for additional information
The impacts above could occur as a result of the following processes:

**Improper casing and cementing.**
A well casing design that is not set at the proper depths or a cementing program that does not properly isolate necessary formations could allow oil, gas or HF fluids to contaminate other aquifers/formations.

**Natural fractures, faults, and abandoned wells.**
If HF of oil and gas wells result in new fractures connecting with established natural fractures, faults, or improperly plugged dry or abandoned wells, a pathway for gas or contaminants to migrate underground may be created posing a risk to water quality. The potential for this impact is currently unknown but it is generally accepted that the potential decreases with increasing distance between the production zone and usable water zones. This potential again is dependent upon the site specific conditions at the well location.

**Fracture growth.**
A number of studies and publications report that the risk of induced fractures extending out of the target formation into an aquifer—allowing hydrocarbons or other fluids to contaminate the aquifer—may depend, in part, on the formation thickness separating the targeted fractured formation and the aquifer. For example, according to a 2012 Bipartisan Policy Center report, the fracturing process itself is unlikely to directly affect freshwater aquifers because fracturing typically takes place at a depth of 6,000 to 10,000 feet, while drinking water aquifers are typically less than 1,000 feet deep. Fractures created during HF have not been shown to span the distance between the targeted formation and freshwater bearing zones. If a parcel is sold and development is proposed in usable water zones, those operations would have to comply with federal and/or state water quality standards or receive a Class 5 designation from the WDEQ.

Fracture growth and the potential for upward fluid migration, through coal and other geologic formations depend on site-specific factors such as the following:

1. Physical properties, types, thicknesses, and depths of the targeted formation as well as those of the surrounding geologic formations.
2. Presence of existing natural fracture systems and their orientation in the target formation and surrounding formations.
3. Amount and distribution of stress (i.e., in-situ stress), and the stress contrasts between the targeted formation and the surrounding formations.

Hydraulic fracture stimulation designs include the volume of fracturing fluid injected into the formation as well as the fluid injection rate and fluid viscosity; this information would be evaluated against the above site specific considerations.

**Fluid leak and recovery (flowback) of HF fluids.**
It is theorized that not all fracturing fluids injected into the formation during the HF process may be recovered. It is theorized that fluid movement into smaller fractures or other geologic substructures can be to a point where flowback efforts will not recover all the fluid or that the pressure reduction caused by pumping during subsequent production operations may not be sufficient to recover all the fluid that has leaked into the formation. It is noted that the fluid loss due to leakage into small fractures and pores is minimized by the use of cross-linked gels.

Willberg et al. (1998) analyzed HF flowback and described the effect of pumping rates on cleanup efficiency in initially dry, very low permeability (0.001 md) shale. Some wells in this study were pumped at low flowback rates (less than 3 barrels per minute (bbl/min). Other wells were pumped more aggressively at greater than 3 bbl/min. Thirty- one percent of the injected HF fluids were recovered when low flowback rates were applied over a 5-day period. Forty-six percent of the fluids were recovered when aggressive flowback rates were applied in other wells over a 2-day period. In both cases, additional fluid recovery (10 percent to 13 percent) was achieved during the subsequent gas production phase, resulting in a total recovery rate of 41 percent to 59 percent of the initial volume of injected HF fluid. Ultimate recovery rate however, is dependent on the permeability of the rocks, fracture configuration, and the surface area of the fracture(s).

The ability of HF chemicals to migrate in an undissolved or dissolved phase into a usable water zone is likely dependent upon the location of the sealing formation (if any), the geology of the sealing formation, hydraulic gradients and production pressures. The following discussion, adapted from: Evaluation of Impacts to Underground Sources of Drinking Water by Hydraulic Fracturing of Coalbed Methane Reservoirs; Chapter 3 Characteristics of CBM Production and Associated HF Practices (3-5EPA 816-R-04-003, June, 2004), takes place where there is not a sealing formation between the fractured formation and usable waters; the two zones are separated by approximately 1000’ of earth in the Powder River Basin of WY.

HF Fluids can remain in the subsurface unrecovered, due to “leak off” into connected fractures and the pores of rocks. Fracturing fluids injected into the primary hydraulically induced fracture can intersect and flow (leak off) into preexisting smaller natural fractures. Some of the fluids lost in this way may occur very close to the well bore after traveling minimal distances in the
hydraulically induced fracture before being diverted into other fractures and pores. Once “mixed” with the native water, local and regional vertical and horizontal gradients may influence where and if these fluids will come in contact with usable water zones, assuming that there is inadequate recovery either through the initial flowback or over the productive life of the well. Faults, folds, joints, etc., could also alter localized flow patterns as discussed below.

The following processes can influence effective recovery of the fracture fluids:

**Check-Valve Effect**
A check-valve effect occurs when natural and/or newly created fractures open and HF fluid is forced into the fractures when fracturing pressures are high, but the fluids are subsequently prevented from flowing back toward the wellbore as the fractures close when the fracturing pressure is decreased (Warpinski et al., 1988; Palmer et al., 1991a). A long fracture can be pinched-off at some distance from the wellbore. This reduces the effective fracture length. HF fluids trapped beyond the “pinch point” are unlikely to be recovered during flowback and oil/gas is unlikely to be recovered during production.

In most cases, when the fracturing pressure is reduced, the fracture closes in response to natural subsurface compressive stresses. Because the primary purpose of hydraulic fracturing is to increase the effective permeability of the target formation and connect new or widened fractures to the wellbore, a closed fracture is of little use. Therefore, a component of HF is to “prop” the fracture open, so that the enhanced permeability from the pressure-induced fracturing persists even after fracturing pressure is terminated. To this end, operators use a system of fluids and “proppants” to create and preserve a high-permeability fracture-channel from the wellbore deep into the formation.

The check-valve effect takes place in locations beyond the zone where proppants have been placed (or in smaller secondary fractures that have not received any proppant). It is possible that some volume of stimulation fluid cannot be recovered due to its movement into zones that were not completely “propped” open.

**Adsorption and Chemical Reactions**
Adsorption and chemical reactions can also prevent HF fluids from being recovered. Adsorption is the process by which fluid constituents adhere to a solid surface and are thereby unavailable to flow with groundwater. Adsorption to coal is likely; however, adsorption to other geologic material (e.g., shale, sandstone) is likely to be minimal. Another possible reaction affecting the recovery of fracturing fluid constituents is the neutralization of acids (in the fracturing fluids) by carbonates in the subsurface.

**Movement of Fluids Outside the Capture Zone**
Fracturing fluids injected into the target zone flow into fractures under very high pressure. The hydraulic gradients driving fluid flow away from the wellbore during injection are much greater than the hydraulic gradients pulling fluid flow back toward the wellbore during flowback and production (pumping) of the well. Some portion of the fracturing fluids could be forced along the hydraulically induced fracture to a point beyond the capture zone of the production well. The size of the capture zone will be affected by the regional groundwater gradients, and by the drawdown caused by producing the well. Site-specific geologic, hydrogeologic, injection pressure, and production pumping details should provide the information needed to estimate the dimension of the production well capture zone and the extent to which the fracturing fluids might disperse and dilute.

**Incomplete Mixing of Fracturing Fluids with Water**
Steidl (1993) documented the occurrence of a gelling agent that did not dissolve completely and actually formed clumps at 15 times the injected concentration in an induced fracture. Steidl also directly observed, in his mined-through studies, gel hanging in stringy clumps in many other induced fractures. As Willberg et al. (1997) noted, laboratory studies indicate that fingered flow of water past residual gel may impede fluid recovery. Therefore, some fracturing fluid gels appear not to flow with groundwater during production pumping and remain in the subsurface unrecovered. Such gels are unlikely to flow with groundwater during production, but may present a source of gel constituents to flowing groundwater during and after production.

Authorization of any future proposed projects would require full compliance with local, state, and federal regulations and laws that relate to surface and groundwater protection and would be subject to routine inspections by the BLM and the Wyoming Oil and Gas Commission as described in Memorandum of Understanding WY920-94-09-79, dated September 21, 1994, prior to approval.

**GEOLOGIC HAZARDS (INCLUDING SEISMIC/LANDSLIDES)**
Potential geologic hazards caused by HF include induced seismic activity. Induced seismic activity could indirectly cause surficial landslide activity where soils/slopes are susceptible to failure.

Landslides involve the mass movement of earth materials down slopes and can include debris flows, soil creep, and slumping of large blocks of material. There are no identified landslides in the project area [Kemmerer RMP (2010), Pinedale RMP (2008), Green River RMP (1997), Rock Springs RMP Revision, and Rawlins RMP (2008) Chapter 2, Affected Environment and/or Summary of the Management Situation Analysis; Wyoming State Geological Survey (2011)].
Earthquakes occur when energy is released due to blocks of the earth’s crust moving along areas of weakness or faults. Earthquakes attributable to human activities are called “induced seismic events” or “induced earthquakes.” In the past several years induced seismic events related to energy development projects have drawn heightened public attention. Although only a very small fraction of injection and extraction activities at hundreds of thousands of energy development sites in the United States have induced seismicity at levels that are noticeable to the public, seismic events caused by or likely related to energy development have been measured and felt in Alabama, Arkansas, California, Colorado, Illinois, Louisiana, Mississippi, Nebraska, Nevada, New Mexico, Ohio, Oklahoma, and Texas.

A study conducted by the National Academy of Sciences14 studied the issue of induced seismic activity from energy development. As a result of the study, they found that: (1) the process of hydraulic fracturing a well as presently implemented for shale gas recovery does not pose a high risk for inducing felt seismic events; and (2) injection for disposal of waste water derived from energy technologies into the subsurface does pose some risk for induced seismicity, but very few events have been documented over the past several decades relative to the large number of disposal wells in operation.

The potential for induced seismicity cannot be made at the leasing stage; as such, it will be evaluated at the APD stage should the parcel be sold/issued, and a development proposal submitted.

**SPILL RESPONSE AND REPORTING**

Spill Prevention, Control, and Countermeasure (SPCC) - EPAs rules include requirements for oil spill prevention, preparedness, and response to prevent oil discharges to navigable waters and adjoining shorelines. The rule requires that operators of specific facilities prepare, amend, and implement SPCC Plans. The SPCC rule is part of the Oil Pollution Prevention regulation, which also includes the Facility Response Plan (FRP) rule. Originally published in 1973 under the authority of §311 of the Clean Water Act, the Oil Pollution Prevention regulation sets forth requirements for prevention of, preparedness for, and response to oil discharges at specific non-transportation-related facilities. To prevent oil from reaching navigable waters and adjoining shorelines, and to contain discharges of oil, the regulation requires the operator of these facilities to develop and implement SPCC Plans and establishes procedures, methods, and equipment requirements (Subparts A, B, and C). In 1990, the Oil Pollution Act amended the Clean Water Act to require some oil storage facilities to prepare Facility Response Plans. On July 1, 1994, EPA finalized the revisions that direct facility owners or operators to prepare and submit plans for responding to a worst-case discharge of oil.

In addition to EPA’s requirements, operators must provide a plan for managing waste materials, and for the safe containment of hazardous materials, per Onshore Order #1 with their APD proposal. All spills and/or undesirable events are managed in accordance with Notice to Lessee (NTL) 3-A and WY Information Memorandums 2008-028: NTL- 3A Reporting Requirements and 2009-021 Guidance & Standards for Response to Oil & Gas-Related Spills & Clean-Up Criteria. Regulations found at 43 CFR 3162.5(c) provide BLM with the necessary regulatory framework for responding to all spills and/or undesirable events related to hydraulic fracturing operations.

**PUBLIC HEALTH AND SAFETY**

The intensity, and likelihood, of potential impacts to public health and safety, and to the quality of usable water aquifers is directly related to proximity of the proposed action to domestic and/or community water supplies (wells, reservoirs, lakes, rivers, etc.) and/or agricultural developments. The potential impacts are also dependent on the extent of the production well’s capture zone and well integrity. Standard Lease Notice No.1 specifies that development is generally restricted within a quarter mile of occupied dwellings and within 500 feet of riparian habitats and wetlands, perennial water sources (rivers, springs, water wells, etc.) and/or floodplains. Intensity of impact is likely dependent on the density of development. Further information related to the rate of development is provided in the Leasing Environmental Analysis under cumulative impacts.

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14 Induced Seismicity Potential in Energy Technologies, National Academy of Sciences, 2012
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Calculation assumes 100% of HF H2O is freshwater.
Conversion factor: gallons to barrels: *0.0317460317 Conversion factor: barrels to acre feet: /10511.3365126
## 5.7 Lease Parcel Disposition

### 2018Q4 Parcel Disposition and Acreage Summary

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Cow Butte/Wild Cow WHMA (The WHMA is closed to new oil and gas leasing per Dec 2008 Rawlins RMP pg. 2-34) Defer

Defer in Part/Defer in Part

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s2 lots 1-4, s2n2, s2; s10 ne

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Defer ALL

Defer ALL

Defer ALL

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Red Creek No Leasing Area (This area is closed to new oil and gas leasing per 1996 Green River RMP pg. 12)

Greater Little Mountain; RS RMP Revision

Red Creek Badlands Wilderness Study Area (WSA is closed to new oil and gas leasing per 1996 Green River RMP pg. 23-24); Greater Little Mountain; RS RMP Revision

Defer in Part/Delete in Part

s7 lot 9

s5 lots 9-24; s6 lots 15-38; s8 lots 1-4, 8
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- S33 n2, s34 n2w2, n2ne

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Red Desert to Hoback:
Tribal Consultation
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5.8 EA Preparers/Reviewers, Consultation & Coordination

The following individuals or organizations were involved in consultation on issues in the development of this EA.

5.8.1 Outside Agencies or Individuals

Prior to publication of this EA, letters were sent to landowners by the WSO notifying them that the minerals under their surface lands had been nominated for lease and inviting them to participate in the BLM’s review. Of the initial 702 parcel nominated for sale, 452 appear to have at least some portion of the parcel in private fee ownership. Where surface ownership information was provided, the WSO mailed notification letters to each person’s whose information was provided. No comments were received from these surface owners during the initial or extended comment period.

Informal scoping letters were also sent to Native American tribal contacts known or identified as having interest or concerns with oil and gas leasing in the area. No comments were received as a result of sending these letters. Tribal consultation was specifically initiated for parcel 323 in the Pinedale Field Office and this parcel is deferred from offering under State Director discretion.

When necessary, notice letters were sent to the Forest Service, Douglas Ranger District and to units of the National Park Service in the northeast regional area of Wyoming. The superintendent of the Fort Laramie National Historic Site has identified concerns with oil and gas development in proximity to the Historic Site for previous sales. Those concerns include activities within the visual setting of the area, effects on visitor experience, and impacts to air quality, water quality and night skies. These impacts associated with lease development, and will be addressed site specifically if a development proposal is submitted. No new issues were identified that would suggest the need to consider alternatives beyond those being addressed in this EA and no specific comments were received from these entities.

In accordance with the BLM/WGFD Memorandum of Understanding WY131, Appendix 5G, the WSO sent the preliminary parcel list to the WGFD field personnel were provided an opportunity to review the revised preliminary parcel list and send their comments back to the BLM field office. If WGFD field personnel did not have any comments or concerns with the revised preliminary parcel list, they sent an email/letter to the BLM field office that they have reviewed the revised preliminary parcel list, and the WGFD concerns have been met and they have no additional concerns. The BLM field offices reviewed WGFD field personnel concerns and addressed any concerns. The WSO also routinely meets with WGFD Habitat Protection Program personnel as a part of its coordination on oil and gas lease sales. Individuals contacted at the WGFD regarding the subject parcels include: Brandon Scurlock (PFO and RSFO), Sam Stephens (RFO), Jeff Short (KFO), Erika Peckham, Cheyenne Stewart and Tim Thomas (BFO); Willow Hibbs and Heather Obrien (CFO); Joe Sandrini, Erika Peckham and Willow Bish (NFO); Leslie Schreiber (WFO); and Angela Bruce, Rick Huber, and Scott Smith (Cheyenne WGFD/Statewide).

Under procedures outlined in a memorandum of understanding, the BLM requested comments from the Bureau of Reclamation (BOR) as the surface management agency on any parcels located on lands managed by the BOR. This coordination is also discussed under Scoping, in section 1.6 on page 1.6 of this EA.

5.8.2 BLM-Wyoming State Office

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<tr>
<td>Ryan McCammon</td>
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5.8.3 BLM-High Desert District

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<td>Randy Sorenson</td>
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5.9  References


5.9.1  High Desert District


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5.9.2 High Plains District

BEA (Bureau of Economic Analysis), 2012a. Table CA25N: Total full-time and part-time employment by NAICS industry. http://www.bea.gov/iTable/iTable.cfm?ReqID=70&step=1&isuri=1&acrdn=5


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5.9.3 Wind River/Bighorn Basin District

Code of Federal Regulations

40 Code of Federal Regulations (CFR), Protection of Environment
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Resource Management Plans (RMP)


Manuals and Handbooks


Additional References

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