

Uinta Land and Resource Management Plan (Forest Plan)

AMENDMENT NO. 4

February 2011

POSTING NOTICE:

There are five pages and two new appendices with this posting notice:

- Page 3-6 through 3-8 should replace these existing pages.
- Page 5-6 and 5-6a should replace the current page 5-6.
- Appendices H and I should be added to the Forest Plan.

EXPLANATION:

The Uinta National Forest Oil and Gas Leasing Environmental Impact Statement provides analysis to substantiate changes to Standard M&E-13, the addition of Guideline M&E-14 and the change to the leasable minerals desired future condition applicable to all management areas.

This amendment is a non-significant amendment to the Uinta Forest Plan. This amendment would update direction for leasable minerals. Any surface disturbing activities would require additional environmental analysis.

- M&E-10** **Standard:** Recommend developed recreation areas and administrative sites to the Bureau of Land Management (BLM) for withdrawal from ~~leasable and~~ locatable mineral entry. (Correction #3, November 2006)
- M&E-11** **Guideline:** Recreational dredging and sluicing opportunities (as defined by the State of Utah Recreational Dredging and Sluicing permitting process) are restricted to those drainages and/or stream segments identified in the State of Utah Recreational Dredging and Sluicing Application and most recent list of streams available for these activities. The list of streams is modified annually.
- M&E-12** **Standard:** Recreational dredging will be conducted in accordance with the State of Utah Division of Water Rights Recreational Dredging and Sluicing Application. Operations outside the scope of the *Conditions of Approval* in the state permit will require a plan of operations.
- M&E-13** **Standard:** For all new leasable mineral operations, leasing stipulations will be applied according to ~~the Recreation Opportunity Spectrum (ROS) class of the area as listed in Table 3-1, and any specific resource areas as listed in Table 3-2. If there is a conflict between the two tables, the most restrictive stipulation will apply~~ Appendix H. (Amendment #4)
- M&E-14** **Guideline:** Lease Notices outlined in Appendix I will be applied to all new leases. (Amendment #4)

Table 3-1. Leasing Stipulations by Recreation Opportunity Spectrum (ROS) Class and Management Prescription

Management Prescription	Stipulation by Recreation Opportunity Spectrum (ROS) Class					
	Primitive	Semi-Primitive Non-Motorized	Semi-Primitive Motorized	Roaded Natural	Roaded Modified	Rural
1.4	NA					
1.5		NSO	NSO			
2.1 ¹	Not Applicable ³					
2.2 ¹	Not Applicable ³					
2.3 ¹		CSU	CSU	CSU	CSU	
2.4	NSO					
2.5		NSO	CSU	CSU	CSU	CSU
2.6		NSO	NSO	NSO	NSO	NSO
3.1		NSO	CSU	CSU	CSU	CSU
3.2		NSO	CSU	CSU	CSU	CSU
3.3		NSO	TL & CSU	TL & CSU	TL & CSU	TL & CSU
4.4		NSO	TL & CSU	TL & CSU	TL & CSU	TL & CSU
4.5		NSO	NSO	NSO	NSO	NSO
5.1		NSO	CSU	CSU	CSU	
5.2		CSU	SLT	SLT	SLT	
6.1		NSO	CSU	SLT	SLT	SLT
7.0 ²						
8.1				SLT	SLT	SLT
8.2			CSU	CSU	CSU	CSU
8.3			NSO	NSO	NSO	
8.4			CSU	CSU	CSU	
All RHCA's	NL	NSO	NSO	NSO	NSO	NSO

Note: Blank cells indicate there is no acreage within that particular management prescription/ROS class combination.

Stipulation abbreviations:

CSU — Controlled Surface Use

LN — Lease Notice

NA — Not available for lease (e.g., withdrawn)

NL — No Lease

NSO — No Surface Occupancy

TL — Timing Limitation

SLT — Standard Lease Terms

¹— Areas with a management prescription 2.3 Wild and Scenic Rivers—Recreational have an underlying prescription. The most restrictive stipulation of the two prescriptions will apply in these areas.

²— Areas with a management prescription of 7.0 Wildland Urban Interface have an underlying prescription that will dictate the stipulation to be applied.

³— With the 2008 decision for the "Wild and Scenic River Suitability Study for the National Forest System Lands in Utah", this management prescription/ROS class combination no longer applies to any lands on the UNF.

Table 3-2.— Leasing Stipulations by Resource Area

Resource Area	Stipulation
Watershed resources	
Geologic hazards/unstable soils	NSO
Steep slopes >35 percent	NSO
Riparian/wetlands >40 acres	NSO
Wildlife and Plant Species	
Greater sage grouse breeding habitat in the Vernon and Strawberry Reservoir Management Areas	TL
Critical elk winter range	TL
Critical deer winter range	TL
Critical elk calving range	TL
Critical elk year-long range	TL
Lynx Analysis Units	TL
— Presence of threatened or endangered species	LN
— Presence of a Forest Service sensitive species	CSU
Research Natural Areas (RNAs)	NSO
Developed campgrounds	NSO
Visual resources	
Preservation (subject to valid existing rights)	NL
Retention and Partial Retention	CSU
Modification	SLT

Soil and Water Resource Management

- S&W-1** **Standard:** Maintain or improve long-term soil productivity and hydrologic function of the soil by limiting activities that would cause detrimental soil disturbance. Detrimental soil disturbance consists of severely burned soils, loss of ground cover, or detrimental soil displacement, erosion, puddling, or compaction, as defined in Forest Service Handbook (FSH) 2509.18 and applicable Intermountain Region supplements.
- S&W-2** **Guideline:** Avoid land use practices that reduce soil moisture effectiveness, increase average erosion, cause invasion of exotic plants, and reduce abundance and diversity of forbs in the long-term (some short-term practices that would seem to contradict this direction may be beneficial in the long-term).
- S&W-3** **Guideline:** Maintain at least 70 percent of potential effective ground cover to provide nutrient cycling and protect the soil from erosion in excess of soil loss tolerance limits.

management of heritage resources, including historic Forest Service structures. Information about past human activities provides a context for understanding current ecological issues, and provides a foundation for ecological restoration projects. Knowledge of past activities is increased through archaeological and historical research. Known sites are protected against erosion and impacts from recreation.

RANGE

Grazing opportunities are maintained on 71 open cattle and sheep allotments and continue to support the livestock industry in the local communities. Livestock grazing continues to be a viable and sustainable use of vegetation on these allotments, and is managed to ensure the long-term resource goals for soil productivity, vegetative communities, wildlife habitats, and water quality are achieved.

MINERALS

The Forest administers its minerals program to encourage and facilitate the orderly exploration, development, and production of mineral resources. It will continue to support this effort as per Agency and Department policy and applicable laws and regulations.

Leasable. ~~Special use permits for oil and gas exploration have been issued in the past, and future proposals will be entertained. The Forest will examine and act upon formal worthy proposals with environmental considerations and apply the appropriate stipulation(s). Leasing of National Forest System lands in the high and moderate areas as identified in the Western Uinta Basin Oil and Gas Leasing FEIS (USDA 1997b) will continue to be offered competitively. That FEIS covers the following management areas: Diamond Fork (eastern side), Strawberry Reservoir (portions south of U.S. Highway 40), Upper Spanish Fork Canyon, White River, and Willow Creek. The remaining management areas were not covered in that FEIS, but will be analyzed for future land allocation. In all cases, site-specific analysis will be reviewed upon the receipt of any proposal before implementing on-the-ground activities. Interest lately has occurred in several areas on the Forest, particularly in the southern portion of the Nephi Management Area. Competitive award of leasing for oil and gas has already occurred in the White River Management Area. 2 Oil and gas leases have been issued and will continue. Energy mineral exploration and development is compatible with ecosystem capabilities and resource values. Balanced use of mineral resources is allowed, while protecting other resource values with stipulations, conditions of approval, mitigation, monitoring, and other resource protection requirements. Lands disturbed will be restored through effective reclamation techniques.~~

Locatable. The General Mining Law of 1872 authorizes qualified parties to enter lands open to mineral entry and locate mining claims for locatable minerals; the Forest Service cannot prohibit mining. Both the General Mining Law and Forest Service mining regulations establish a process whereby the Forest Service

evaluates mining proposals in the context of its responsibilities as steward of National Forest System lands. The Forest Service does have the authority to regulate locatable minerals activities to prevent and/or minimize surface damage to National Forest System lands. The Forest Service, along with the applicant, then prepares reasonable mitigation and reclamation measures to address any

APPENDIX H: LEASE STIPULATIONS

<p>Uinta Oil & Gas Leasing EIS Reference number and criteria</p>	<p>NO SURFACE OCCUPANCY STIPULATIONS</p>
<p>EIS Reference No. NSO – 2*</p> <p>Riparian Areas (all regardless of acreage)</p>	<p>NO SURFACE OCCUPANCY FOR RIPARIAN AREAS (ALL ACREAGES)</p> <p>For the Purpose Of: Protecting riparian ecosystems. Riparian ecosystems are managed by the Forest Service to protect from conflicting uses in order to provide healthy, self-perpetuating plant and water communities that will have optimum diversity and density of understory and overstory vegetation. No well sites or production facilities such as tank batteries and compressor stations will be allowed, and oil and gas exploration and development will be moved outside of the riparian vegetation area. Construction of roads, pipelines and other similar facilities must comply with direction in the 2003 Uinta National Forest Land and Resource Management Plan.²</p> <p>Exception¹: An exception could be authorized if: (a) an on-site review determines the area proposed to be impacted is not riparian, and not within a Riparian Habitat Conservation Area (RHCA) as defined in the 2003 Uinta National Forest Land and Resource Management Plan; or (b) there are no practical alternatives, and an on-site analysis shows that all impacts to riparian, aquatic and hydrological resources could be fully mitigated.</p> <p>Modification¹: None</p> <p>Waiver¹: None</p>
<p>EIS Reference No. NSO – 3</p> <p>Riparian Habitat Conservation Areas (Lands within 300' of the edge of Class I water bodies, within 200' of the edge of Class II water bodies, within 100' of the edge of Class III water bodies as identified in the 2003 Revised Forest Plan)</p>	<p>NO SURFACE OCCUPANCY FOR RIPARIAN HABITAT CONSERVATION AREAS</p> <p>For the Purpose Of: Protecting riparian areas and associated habitats within RHCAs as identified in the 2003 Uinta National Forest Land and Resource Management Plan. RHCAs are managed by the Forest Service to protect from conflicting uses in order to provide healthy, self-perpetuating plant and water communities that will have optimum diversity and density of understory and overstory vegetation. In order to protect these areas no well sites or production facilities such as tank batteries and compressor stations may be constructed in these areas, and oil and gas exploration and development will be moved outside the RHCAs. Construction of roads, pipelines and other similar facilities must comply with direction in the 2003 Uinta National Forest Land and Resource Management Plan.²</p> <p>Exception: None</p> <p>Modification: None</p> <p>Waiver: None</p>
<p>EIS</p>	<p>NO SURFACE OCCUPANCY FOR WETLANDS (ALL ACREAGES)</p>

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<p><u>Reference</u> <u>No. NSO – 5</u></p> <p>Wetlands (all regardless of acreage)</p>	<p>For the Purpose Of: Protecting jurisdictional wetlands relative to Executive Order 11990, and the associated habitats, water quality, and ecosystems associated with these areas. In order to protect these areas no well sites or production facilities such as tank batteries and compressor stations may be constructed in these areas, and oil and gas exploration and development will be moved out of jurisdictional wetlands. Construction of roads, pipelines and other similar facilities must comply with direction in the 2003 Uinta National Forest Land and Resource Management Plan.²</p> <p>Exception: An exception could be authorized if: (a) an on-site review determines the area proposed to be impacted is not a jurisdictional wetland.</p> <p>Modification: None</p> <p>Waiver: None</p>
<p><u>EIS</u> <u>Reference</u> <u>No. NSO – 6</u></p> <p>Slope > 35%</p>	<p>NO SURFACE OCCUPANCY FOR SLOPES GREATER THAN 35 PERCENT</p> <p>For the Purpose Of: Protecting the soil and water resource because soils disturbed by construction of well sites and related facilities such as tank batteries on steep slopes would be difficult to reclaim and could result in unacceptable soil loss through erosion and resultant potential impairment of soil productivity and water quality degradation. No well sites or production facilities such as tank batteries and compressor stations may be constructed in these areas. Construction of roads, pipelines and other similar facilities must comply with direction in the 2003 Uinta National Forest Land and Resource Management Plan.²</p> <p>Exception: If after an environmental analysis the authorized officer determines (1) there are no other practical placement alternatives, and (b) impacts could be fully mitigated, surface occupancy in the NSO may be authorized. Additionally a plan would be submitted by the operator and approved prior to construction and maintenance and include: An erosion control strategy, A detailed restoration/reclamation plan, and Proper survey and design (with construction plans and drawings) by a certified engineer.</p> <p>Modification: None</p> <p>Waiver: None</p>
<p><u>EIS</u> <u>Reference</u> <u>No. NSO – 7</u></p> <p>Geologic Hazards and Unstable Soils</p>	<p>NO SURFACE OCCUPANCY FOR GEOLOGIC HAZARDS AND UNSTABLE SOILS</p> <p>For the Purpose Of: Protecting the soil and water resource because unstable soils disturbed by construction of well sites and related facilities such as tank batteries would be difficult to rehabilitate and development on these areas could cause accelerated erosions and/or increased instability. No well sites or production facilities such as tank batteries and compressor stations may be constructed in these areas. Construction of roads,</p>

<p>Uinta Oil & Gas Leasing EIS Reference number and criteria</p>	<p>NO SURFACE OCCUPANCY STIPULATIONS</p>
	<p>pipelines and other similar facilities must comply with direction in the 2003 Uinta National Forest Land and Resource Management Plan.²</p> <p>Exception: If after an environmental analysis the authorized officer determines (1) there are no other practical placement alternatives, and (b) the operator can demonstrate in a surface use plan of operations that adverse effects can be fully mitigated, surface occupancy in the NSO may be authorized. Additionally a plan would be submitted by the operator and approved prior to construction and maintenance and include: An erosion control strategy, A detailed slope stability analysis and plan for maintaining a stable slope, A detailed restoration/reclamation plan, and Proper survey and design (with construction plans and drawings) by a certified engineer.</p> <p>Modification: A modification may be granted if an on-the-ground inspection of a proposed well site or facility shows an area of less than 35% slope exists and mass wasting - prone soils do not exist or that design of the site can mitigate erosion, failure, and reclamation concerns.</p> <p>Waiver: None</p>
<p><u>EIS Reference No. NSO – 8</u></p> <p>Developed Recreation Sites (MP = 4.5)</p>	<p>NO SURFACE OCCUPANCY FOR DEVELOPED RECREATION AREAS</p> <p>For the Purpose Of: Protecting the capital investment and recreation uses associated with these sites. No well sites or production facilities such as tank batteries and compressor stations may be constructed within developed recreation sites (e.g., campgrounds, picnic areas, ski areas, organizational camps). Construction of roads, pipelines and other similar facilities must comply with direction in the 2003 Uinta National Forest Land and Resource Management Plan.²</p> <p>Exception: None</p> <p>Modification: A modification may be granted if a portion of the developed recreation sites in the leasehold are moved or eliminated.</p> <p>Waiver: A waiver may be granted if all the developed recreation site(s) in the leasehold are moved or eliminated.</p>
<p><u>EIS Reference No. NSO – 9</u></p> <p>Lands Adjoining Developed Recreation Sites (within 0.25 miles of MP = 4.5)</p>	<p>NO SURFACE OCCUPANCY ON LANDS ADJOINING DEVELOPED RECREATION AREAS</p> <p>For the Purpose Of: Protecting the capital investment and recreation uses associated with developed recreation sites. no well sites or production facilities such as tank batteries and compressor stations may be constructed within 0.25 miles of established developed recreation sites. Construction of roads, pipelines and other similar facilities must comply with direction in the 2003 Uinta National Forest Land and Resource Management Plan.²</p> <p>Exception: If an on-the-ground review and analysis indicates the oil and gas exploration</p>

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	<p>and development activity would be screened by topography and/or vegetation from view of the developed recreation site, and if noise abatement technology was employed to minimize or preclude noise pollution from the oil and gas exploration or development at the developed recreation site.</p> <p>Modification: A modification may be granted if a portion of the developed recreation sites in the leasehold are moved or eliminated.</p> <p>Waiver: A waiver may be granted if all the developed recreation site(s) in the leasehold are moved or eliminated.</p>
<p><u>EIS Reference No. NSO – 10</u></p> <p>Recreation Residences (MP = 8.4)</p>	<p>NO SURFACE OCCUPANCY ON RECREATION RESIDENCES</p> <p>For the Purpose Of: Protecting the capital investment and recreation uses associated with permitted recreation residences. No well sites or production facilities such as tank batteries and compressor stations may be constructed within areas allocated for recreation residences. Construction of roads, pipelines and other similar facilities must comply with direction in the 2003 Uinta National Forest Land and Resource Management Plan.²</p> <p>Exception: None</p> <p>Modification: A modification may be granted if a portion of the recreation residences in the leasehold are moved or eliminated.</p> <p>Waiver: A waiver may be granted if all of the recreation residences in the leasehold are moved or eliminated.</p>
<p><u>EIS Reference No. NSO – 11</u></p> <p>Lands Adjoining Recreation Residences (within 0.25 miles of MP = 8.4)</p>	<p>NO SURFACE OCCUPANCY ON LANDS ADJOINING RECREATION RESIDENCES</p> <p>For the Purpose Of: Protecting the capital investment and recreation uses associated with special use recreation residences. No well sites or production facilities such as tank batteries and compressor stations may be constructed within 0.25 miles of special use recreation residences. Construction of roads, pipelines and other similar facilities must comply with direction in the 2003 Uinta National Forest Land and Resource Management Plan.²</p> <p>Exception: If an on-the-ground review and analysis indicates activities could be located and conducted in a manner that will minimize the effects on the recreation residences (e.g., screened by topography and/or vegetation from view, incorporate appropriate light, noise and dust abatement technology, etc.), surface occupancy in the NSO may be authorized.</p> <p>Modification: This stipulation may be modified if part of the recreation residences in the lease area are moved or eliminated.</p> <p>Waiver: A waiver may be granted if all the recreation residences on the entire lease are</p>

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	<p>moved or eliminated.</p>
<p><u>EIS Reference</u> No. NSO – 12</p> <p>Research Natural Areas (RNAs) (MP = 2.4)</p>	<p>NO SURFACE OCCUPANCY FOR RESEARCH NATURAL AREAS</p> <p>For the Purpose Of: Protecting RNAs in their near natural conditions for future research, and protecting the unique conditions found in these areas that may not be provided elsewhere. No well sites or production facilities such as tank batteries and compressor stations will be allowed in RNAs. Construction of roads, pipelines and other similar facilities must comply with direction in the 2003 Uinta National Forest Land and Resource Management Plan, which prohibits construction of roads in RNAs (MP-2.4-4).²</p> <p>Exception: None.</p> <p>Modification: This stipulation may be modified if the boundary of the RNA within the leasehold is modified.</p> <p>Waiver: If the entire leasehold no longer contains portions of a RNA.</p>
<p><u>EIS Reference</u> No. NSO – 13</p> <p>Semi-Primitive Non-Motorized Recreation LRMP ROS allocation and MP = 2.5, 3.1, 3.2, 3.3, 4.4, 5.1, or 6.1</p>	<p>NO SURFACE OCCUPANCY FOR SEMI-PRIMITIVE NON-MOTORIZED RECREATION</p> <p>For the Purpose Of: Maintaining semi-primitive and non-motorized values of the areas allocated to this recreational opportunity in management prescriptions 2.5, 3.1, 3.2, 3.3, 4.4, 5.1 or 6.1 in the 2003 Uinta National Forest Land and Resource Management Plan. No well sites or production facilities such as tank batteries and compressor stations may be constructed in these areas. Construction of roads, pipelines and other similar facilities must comply with direction in the 2003 Uinta National Forest Land and Resource Management Plan.²</p> <p>Exception: None.</p> <p>Modification: This stipulation may be modified if it is determined portions of the lease are no longer managed for semi-primitive non-motorized recreation opportunities.</p> <p>Waiver: A waiver may be granted if none of the area within the leasehold is being managed for semi-primitive values.</p>
<p><u>EIS Reference</u> No. NSO – 14</p> <p>Undeveloped Areas (MP = 2.6)</p>	<p>NO SURFACE OCCUPANCY FOR UNDEVELOPED AREAS</p> <p>For the Purpose Of: Preserving the qualities associated with undeveloped areas as identified by a Management Prescription of 2.6 in the 2003 Uinta National Forest Land and Resource Management Plan. No well sites or production facilities such as tank batteries and compressor stations may be constructed in these areas. Construction of roads, pipelines and other similar facilities must comply with direction in the 2003 Uinta National Forest Land and Resource Management Plan.²</p> <p>Exception: None</p>

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	<p>Modification: None</p> <p>Waiver: None</p>
<p><u>EIS Reference</u> <u>No. NSO – 15</u></p> <p>Administrative Sites (MP = 8.3)</p>	<p>NO SURFACE OCCUPANCY FOR ADMINISTRATIVE SITES</p> <p>For the Purpose Of: Protecting the capital investment and uses associated with administrative sites. No well sites or production facilities such as tank batteries and compressor stations will be allowed at administrative sites. Construction of roads, pipelines and other similar facilities must comply with direction in the 2003 Uinta National Forest Land and Resource Management Plan.²</p> <p>Exception: None</p> <p>Modification: A modification may be granted if a portion of the administrative site(s) in the leasehold are moved or eliminated.</p> <p>Waiver: A waiver may be granted if all the administrative site(s) in the leasehold are moved or eliminated.</p>
<p><u>EIS Reference</u> <u>No. NSO – 16</u></p> <p>Wild and Scenic River Corridor (MP = 2.3, Little Provo Deer Creek Corridor)</p>	<p>NO SURFACE OCCUPANCY FOR WILD AND SCENIC RIVER CORRIDORS</p> <p>For the Purpose Of: Protecting the free-flowing character, outstandingly remarkable values, and recreational river character for the Little Provo Deer Creek corridor (including the ¼-mile wide corridor on either side of the river segment). No well sites or production facilities such as tank batteries and compressor stations will be allowed within the corridor, in order to protect the eligibility of the river segment. Construction of roads, pipelines and other similar facilities must comply with direction in the 2003 Uinta National Forest Land and Resource Management Plan.²</p> <p>Exception: None</p> <p>Modification: None</p> <p>Waiver: If it is determined the entire lease no longer contains a river suitable for, or included in the National Wild and Scenic Rivers System.</p>
<p><u>EIS Reference</u> <u>No. NSO – 17</u></p> <p>Central Utah Project (CUP) Mitigation Lands</p>	<p>NO SURFACE OCCUPANCY FOR CENTRAL UTAH PROJECT (CUP) MITIGATION LANDS</p> <p>For the Purpose Of: Protecting values for which these lands were acquired as mitigation for CUP activities. Construction of well sites or related facilities such as tank batteries would not be allowed on these lands. No well sites or production facilities such as tank batteries and compressor stations may be constructed in these areas. Construction of roads, pipelines and other similar facilities must comply with direction in the 2003 Uinta National Forest Land and Resource Management Plan.²</p>

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	<p>Exception: None</p> <p>Modification: None</p> <p>Waiver: None</p>
<p><u>EIS Reference</u> No. NSO – 19</p> <p>Lands within ½ -mile of CUP facilities and 1 mile of dams</p>	<p>NO SURFACE OCCUPANCY FOR CUP FACILITIES</p> <p>For the Purpose Of: Protecting the physical integrity and security for these high-cost, high-value facilities and infrastructure. No well sites or production facilities such as tank batteries and compressor stations may be constructed on these lands. Construction of roads, pipelines and other similar facilities must comply with direction in the 2003 Uinta National Forest Land and Resource Management Plan.²</p> <p>Exception: None</p> <p>Modification: None</p> <p>Waiver: None</p>
<p><u>EIS Reference</u> No. NSO – 20</p> <p>Reclamation Withdrawn Lands</p>	<p>NO SURFACE OCCUPANCY FOR LANDS WITHDRAWN FROM MINERAL ENTRY BY BUREAU OF RECLAMATION (RECLAMATION)</p> <p>For the Purpose Of: Protecting existing and future water resource facilities and uses on these lands. Infrastructure currently located on, or potentially to be located on these lands in the future is very costly, and generally cannot practically be located elsewhere. No well sites or production facilities such as tank batteries and compressor stations may be constructed on these lands. Construction of roads, pipelines and other similar facilities must comply with direction in the 2003 Uinta National Forest Land and Resource Management Plan.²</p> <p>Exception: An exception may be granted if there are no practical alternatives, and the authorized officer determines through analysis and discussion with Bureau of Reclamation that the nature of the actions, as proposed or conditioned, could be fully mitigated in respect to BOR water facility impacts.</p> <p>Modification: This stipulation may be modified if it is determined portions of the lease are no longer withdrawn from mineral entry by the BOR.</p> <p>Waiver: If it is determined the entire lease no longer contains lands withdrawn from mineral entry by the BOR.</p>
<p><u>EIS Reference</u> No. NSO – 21</p> <p>Inventoried Roadless Areas</p>	<p>NO SURFACE OCCUPANCY FOR INVENTORIED ROADLESS AREAS</p> <p>For the Purpose Of: Protecting the roadless and wilderness characteristics of these lands. No well sites or production facilities such as tank batteries and compressor stations will be allowed on these lands. Construction of roads, pipelines and other similar facilities must comply with direction in the 2003 Uinta National Forest Land and Resource Management</p>

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<p>(identified in Appendix C of the FEIS for the Revised Uinta Forest Plan)</p>	<p>Plan.²</p> <p>Exception: None.</p> <p>Modification: None</p> <p>Waiver: None.</p>
<p>EIS Reference No. NSO – 23</p> <p>Greater Sage Grouse Brood-Rearing, and Winter Habitats</p>	<p>NO SURFACE OCCUPANCY FOR SAGE GROUSE HABITAT</p> <p>For the Purpose Of: Facilitating recovery of the species, and protecting sage grouse and key habitat for this species (brood-rearing and winter habitat as identified by the Utah Division of Wildlife Resources and as portrayed in the 2003 Uinta National Forest Land and Resource Management Plan). No well sites or production facilities such as tank batteries and compressor stations may be constructed on these lands. Construction of roads, pipelines and other similar facilities must comply with direction in the 2003 Uinta National Forest Land and Resource Management Plan², and involve consultation with the U.S. Fish and Wildlife Service and coordination with the Utah Division of Wildlife Resources.</p> <p>Exception: None</p> <p>Modification: A modification may be granted if the authorizing official determines through consultation with the U.S. Fish and Wildlife Service and coordination with the Utah Division of Wildlife Resources, that new habitat studies demonstrate a portion of the lease area affected by this stipulation no longer contains brood-rearing or winter habitat.</p> <p>Waiver: A waiver may be granted if the authorizing official determines through consultation with the U.S. Fish and Wildlife Service and coordination with the Utah Division of Wildlife Resources, that new habitat studies demonstrate the entire lease area affected by this stipulation no longer contains brood-rearing or winter habitat.</p>
<p>EIS Reference No. NSO – 24</p> <p>Drinking Water Surface Water Zone 1</p>	<p>NO SURFACE OCCUPANCY FOR DRINKING WATER SURFACE WATER PROTECTION</p> <p>For the Purpose Of: Preventing water pollution and protecting the quality of drinking water. Surface Water Protection Zones (SWZs) are delineated by the State of Utah to identify portions of watersheds that influence the quality of water used for culinary water. SWZ 1 is the portion of the watershed immediately upstream of the water source. Protection of SWPZ 1 areas is critical for maintaining clean, safe water for human consumption. No well sites or production facilities such as tank batteries and compressor stations will be constructed on these lands in order to prevent water quality degradation. Construction of roads, pipelines and other similar facilities must comply with direction in the 2003 Uinta National Forest Land and Resource Management Plan.²</p> <p>Exception: None.</p> <p>Modification: A modification may be granted if it is determined, in coordination with the</p>

Uinta Oil & Gas Leasing EIS Reference number and criteria	NO SURFACE OCCUPANCY STIPULATIONS
	<p>State of Utah, through additional more site-specific studies that a portion of the lease area with this stipulation does not contain any lands within SWZ 1.</p> <p>Waiver: A waiver may be granted if it is determined, in coordination with the State of Utah, through additional more site-specific studies that that the lease area does not contain any lands within SWZ 1.</p>
EIS Reference No. NSO – 26 Drinking Water Groundwater Source Zones 1-4	<p>NO SURFACE OCCUPANCY FOR DRINKING WATER GROUNDWATER PROTECTION</p> <p>For the Purpose Of: Preventing water pollution and protecting the quality of drinking water. Groundwater Source Zones (GWSZs) are delineated by the State of Utah to identify portions of aquifers that influence the quality of ground water used for culinary purposes. No well sites or production facilities such as tank batteries and compressor stations will be constructed on these lands in order to prevent water quality degradation. Construction of roads, pipelines and other similar facilities must comply with direction in the 2003 Uinta National Forest Land and Resource Management Plan.²</p> <p>Exception: An exception may be granted if the proposed activity is in GWSZ 2, 3 or 4, there are no practical alternatives, and the authorized officer determines through analysis and in coordination with Utah Division of Water Quality that the nature of the actions, as proposed or conditioned, could be fully mitigated in respect to water quality impacts.</p> <p>Modification: A modification may be granted if it is determined, in coordination with the State of Utah, through additional more site-specific studies that a portion of the lease area with this stipulation does not contain lands within a GWSZ.</p> <p>Waiver: A waiver may be granted if it is determined, in coordination with the State of Utah, through additional more site-specific studies that that the lease area does not contain any lands within a GWSZ.</p>

Uinta Oil & Gas Leasing EIS Reference number and criteria	CONTROLLED SURFACE USE STIPULATIONS
EIS Reference	CONTROLLED SURFACE USE FOR AREAS WITH MODERATELY

Uinta Oil & Gas Leasing EIS Reference number and criteria	CONTROLLED SURFACE USE STIPULATIONS
<u>No. CSU – 1</u> <i>Partial Retention (PR) VQO⁷</i>	HIGH SCENIC VALUE For the Purpose Of: Providing scenic integrity in areas with a visual quality objective (VQO) allocation of “Partial Retention” in the 2003 Uinta National Forest Land and Resource Management Plan. These areas are managed as moderately high scenic value because of their natural landscape variety and features in proximity to travel routes or use areas where users have concern for the aesthetics of the viewed landscape. Construction of well sites or related facilities such as tank batteries should remain visually subordinate to the characteristic landscape. Construction sites and facilities should repeat form, line, color, or texture common to the characteristic landscape; however, structures can introduce form, line, color, or texture that are found infrequently or not at all in the characteristic landscape. Reduction in form, line, color, and texture should be accomplished as soon after project completion as possible or, at a minimum, within the first year after project completion. Exception: An exception may be granted if the operator can demonstrate in a surface use plan of operations that the objectives for scenery can be met. Modification: None Waiver: None. ⁴
<u>EIS Reference No. CSU – 2</u> <i>Retention (R) VQO⁷</i>	CONTROLLED SURFACE USE FOR AREAS WITH HIGH SCENIC VALUE For the Purpose Of: Providing high scenic quality in areas with high scenic value as identified by having an assigned management visual quality objective (VQO) of “Retention” in the 2003 Uinta National Forest Land and Resource Management Plan ¹⁷ . These areas are managed as high scenic value because of their natural landscape variety and features in proximity to primary importance travel routes or use areas where users have a major concern for the aesthetics of the viewed landscape. Management activities should repeat form, line, color, and texture that are frequently found in the characteristic landscape. Changes should not be evident to the casual forest visitor, and all retention activities to restore the area to a naturally appearing condition should be accomplished either during the operation or immediately thereafter. Exception: An exception may be granted if the operator can demonstrate in a surface use plan of operations that the management objectives for scenery can be met. Modification: None Waiver: None. ⁴
<u>EIS Reference No. CSU – 6</u> Scenic Byways (MP = 2.5)	CONTROLLED SURFACE USE FOR SCENIC BYWAYS For the Purpose Of: Protecting Scenic Byway corridors to maintain their outstanding recreational, educational, and scenic qualities (NOTE: All of these lands are also allocated to <i>Retention</i> or <i>Partial Retention</i> VQO so stipulations applicable to these VQOs

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	would apply here). Exception: None Modification: None Waiver: None
<u>EIS Reference No. CSU – 7</u> Aquatic, Terrestrial and Aquatic Resource Emphasis Areas (MP = 3.1)	CONTROLLED SURFACE USE FOR AQUATIC, TERRESTRIAL AND AQUATIC RESOURCE EMPHASIS AREAS For the Purpose Of: Maintaining quality aquatic, terrestrial, and hydrologic conditions by limiting management activity in these areas where important multiple habitat and resource values are present. Operations may need to be limited, and disturbed areas must be fully restored. Specific management actions applicable depend on the specific area, and aquatic and terrestrial habitats and watershed conditions for that site/area. Exception: None Modification: None Waiver: None
<u>EIS Reference No. CSU – 8</u> Watershed Emphasis Areas (MP = 3.2)	CONTROLLED SURFACE USE FOR WATERSHED EMPHASIS AREAS For the Purpose Of: Maintaining high quality soil productivity and watershed conditions by limiting management activity in size, scope and intensity in these areas which contain important and/or sensitive watersheds. Operations may need to be limited, and disturbed areas would be completely restored. Specific management actions applicable depend on the specific area, and watershed conditions for that site/area. Exception: None Modification: None Waiver: None
<u>EIS Reference No. CSU – 9</u> Aquatic and Terrestrial Emphasis Areas (MP = 3.3)	CONTROLLED SURFACE USE FOR AQUATIC AND TERRESTRIAL HABITAT EMPHASIS AREAS For the Purpose Of: Maintaining quality habitat to contribute toward maintenance and/or recovery of plant and animal species. This includes habitats of threatened, endangered, sensitive, Management Indicator Species (MIS), and crucial big game winter range. Operations may need to be limited, and disturbed areas would be completely restored. Specific management actions applicable depend on the specific area, and species and habitats occurring there. Exception: None

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	Modification: None Waiver: None
<u>EIS Reference No. CSU – 10</u> Dispersed Recreation Emphasis Areas (MP = 4.4)	CONTROLLED SURFACE USE FOR DISPERSED RECREATION EMPHASIS AREAS For the Purpose Of: Protecting dispersed recreation in areas with concentrations of recreational use. Development and activity would be limited to a level that facilitates the dispersed recreation experience. Measures applied would include requiring noise reduction technologies, and limiting operation and maintenance use on roads during holidays and high use periods. As visual quality is an important factor in providing recreational experience, much of the area allocated to MP 4.4 also has a <i>Retention</i> or <i>Partial Retention</i> VQO allocation which have additional stipulations. Exception: None Modification: None Waiver: None
<u>EIS Reference No. CSU – 11</u> Forest Ecosystems Managed for Limited Development (MP = 5.1) With ROS = SPM, RN, RM or R ¹⁰	CONTROLLED SURFACE USE FOR FORESTED ECOSYSTEMS MANAGED FOR LIMITED DEVELOPMENT For the Purpose Of: Protecting recreational values, while providing for limited development. Minimize impacts of management activities and ensure restoration of the recreational values and natural setting within the area. In areas with <i>Semi-Primitive Motorized</i> (SPM) ROS, this would include minimizing the size and extent of construction activities (e.g., clearing widths, etc.); using noise reduction technologies; and extensively reclaiming disturbed areas to return them to near natural condition in a reasonably short time period. In some cases, special operating practices would be needed to achieve the level of reclamation needed. Exception: None Modification: None Waiver: None
<u>F EIS Reference No. CSU – 12</u> Forested Ecosystems With Vegetation Managed for Timber Production (MP = 5.2) With	CONTROLLED SURFACE USE FOR FORESTED ECOSYSTEMS WITH VEGETATION MANAGED FOR TIMBER AND OTHER MULTIPLE USES For the Purpose Of: For protection of <i>SPNM</i> recreational opportunities. See preceding discussion for <i>SPNM</i> ROS. Exception: None Modification: None

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ROS = SPNM	Waiver: None
<u>EIS Reference No. CSU – 13</u> Non-Forested Ecosystems (MP = 6.1) With ROS = SPM ¹⁰	CONTROLLED SURFACE USE FOR NON-FORESTED ECOSYSTEMS For the Purpose Of: Protecting semi-primitive motorized (<i>SPM</i>) recreational opportunities while providing for limited development. Operations would limit the size and extent of construction activities (e.g., clearing widths, etc.); use noise reduction technologies; and extensively reclaim disturbed areas to return them to near natural condition in a reasonably short time period. In some cases, special operating practices would be needed to achieve the level of reclamation needed. Exception: None Modification: None Waiver: None
<u>EIS Reference No. CSU – 14</u> Utility Corridors and Communication Sites (MP = 8.2) ¹¹	CONTROLLED SURFACE USE FOR UTILITY CORRIDORS AND COMMUNICATION SITES For the Purpose Of: Protecting infrastructure and investments in utility corridors and/or communication sites. Operations would be limited to those consistent with the installation and maintenance of the utility line or communication site, and mitigation against potential erosion and visual quality impacts. Exception: An exception may be granted if there are no practical alternatives, and the authorized officer determines through analysis and in discussion with the Special Use permittee that the nature of the actions, as proposed or conditioned, could be fully mitigated. Modification: None Waiver: None
<u>EIS Reference No. CSU – 16</u> Intermountain Region Forest Service Sensitive Species	CONTROLLED SURFACE USE FOR U.S. FOREST SERVICE SENSITIVE SPECIES For the Purpose Of: Protecting species of flora and fauna listed as sensitive by the Intermountain Region of the U.S. Forest Service (prevent activities from causing a trend toward listing as a ESA-listed threatened or endangered species). Prior to initiating activities survey for USFS sensitive species; and where and how appropriate/applicable provide for protection of these species and their habitats. Specific measures needed are dependent on the species involved, and the type and extent of potential impact. Exception: None Modification: None

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	Waiver: None
<u>EIS Reference No. CSU – 17</u> Sage Grouse Breeding Habitat	CONTROLLED SURFACE USE FOR SAGE GROUSE (NOISE REDUCTION) For the Purpose Of: Protecting breeding and brood-rearing sage grouse from disturbance. Within 5 km (3.1 miles) of known active leks use the best available technology such as installation of multi-cylinder pumps, hospital sound reducing mufflers, and placement of exhaust systems to reduce noise. Exception: None Modification: None Waiver: None
<u>EIS Reference No. CSU – 18</u> Sage Grouse Breeding Habitat	CONTROLLED SURFACE USE FOR SAGE GROUSE (STRUCTURES NEAR LEKS) For the Purpose Of: Protecting breeding and brood-rearing sage grouse from predation, habitat fragmentation, and disturbance. No permanent (i.e., lasting more than 1 year) structures or facilities within 4 miles of an active sage grouse lek in breeding or brood-rearing habitat. Exception: An exception may be granted if the authorized officer, in consultation with the U.S. Fish and Wildlife Service and coordination with the Utah Division of Wildlife Resources, determines through analysis that the nature of the actions, as proposed or conditioned, could be fully mitigated. This might occur if topography and/or vegetation is present that would effectively screen the structure or facility from the breeding habitat. Modification: A modification may be granted if the authorizing official determines through consultation with the U.S. Fish and Wildlife Service and coordination with the Utah Division of Wildlife Resources, that new habitat studies demonstrate a portion of the lease area affected by this stipulation no longer contains breeding or brood-rearing habitat. Waiver: A waiver may be granted if the authorizing official determines through consultation with the U.S. Fish and Wildlife Service and coordination with the Utah Division of Wildlife Resources, that new habitat studies demonstrate the entire lease area affected by this stipulation no longer contains breeding or brood-rearing habitat.
<u>EIS Reference No. CSU – 19</u>	CONTROLLED SURFACE USE FOR SAGE GROUSE (STRUCTURES IN WINTER HABITAT)

Uinta Oil & Gas Leasing EIS Reference number and criteria	CONTROLLED SURFACE USE STIPULATIONS
Sage Grouse Winter Habitat	<p>For the Purpose Of: Protecting wintering sage grouse from predation, habitat fragmentation, and disturbance. No permanent structures or facilities (i.e., lasting more than 1 year) in winter habitat.</p> <p>Exception: An exception may be granted if the authorized officer, in consultation with the U.S. Fish and Wildlife Service and coordination with the Utah Division of Wildlife Resources, determines through analysis that the nature of the actions, as proposed or conditioned, could be fully mitigated.</p> <p>Modification: A modification may be granted if the authorizing official determines through consultation with the U.S. Fish and Wildlife Service and coordination with the Utah Division of Wildlife Resources, that new habitat studies demonstrate a portion of the lease area affected by this stipulation no longer contains winter habitat.</p> <p>Waiver: A waiver may be granted if the authorizing official determines through consultation with the U.S. Fish and Wildlife Service and coordination with the Utah Division of Wildlife Resources, that new habitat studies demonstrate the entire lease area affected by this stipulation no longer contains winter habitat.</p>

Uinta Oil & Gas Leasing EIS Reference number and criteria	TIMING LIMITATION STIPULATIONS
EIS Reference No. TL – 3 Crucial Elk Calving Habitat ¹⁶	<p>TIMING LIMITATION FOR CRUCIAL ELK CALVING HABITAT</p> <p>For the Purpose Of: Protecting crucial elk calving habitat by precluding activities which could cause increased stress and/or displacement during the critical time period (May 15th to June 30th)¹³.</p> <p>Exception: An exception may be granted if there are no practical alternatives, and the authorized officer determines through analysis and in coordination with the Utah Division of Wildlife Resources that the nature of the actions, as proposed or conditioned, could be fully mitigated.</p> <p>Modification: A modification may be granted if the authorized officer determines thru new habitat studies, coordinated with the Utah Division of Wildlife Resources, that a portion of the leasehold affected by this stipulation does not contain crucial elk calving habitat.</p> <p>Waiver: A waiver may be granted if the authorized officer determines thru new habitat</p>

Uinta Oil & Gas Leasing EIS Reference number and criteria	TIMING LIMITATION STIPULATIONS
	studies, coordinated with the Utah Division of Wildlife Resources, that the entire lease area affected by this stipulation does not contain any crucial elk calving habitat.
<u>EIS Reference No. TL – 4</u> Crucial Elk Yearlong Range ¹⁶	TIMING LIMITATION FOR CRUCIAL ELK YEARLONG AREAS For the Purpose Of: Protecting crucial elk year-long range by precluding activities which could cause increased stress and/or displacement during the critical time period (December 1 st to June 30 th). ¹³ . Exception: An exception may be granted if there are no practical alternatives, and the authorized officer determines through analysis and in coordination with the Utah Division of Wildlife Resources that the nature of the actions, as proposed or conditioned, could be fully mitigated. This might occur if seasonal conditions are such that the animals have moved and are not using the specified area during the time they would normally be expected. Modification: A modification may be granted if the authorized officer determines thru new habitat studies, coordinated with the Utah Division of Wildlife Resources, that a portion of the leasehold affected by this stipulation does not contain crucial elk year-long range. Waiver: A waiver may be granted if the authorized officer determines thru new habitat studies, coordinated with the Utah Division of Wildlife Resources, that the entire lease area affected by this stipulation does not contain any crucial elk yearlong range.
<u>EIS Reference No. TL – 5</u> Crucial Elk Winter Range ¹⁶	TIMING LIMITATION FOR CRUCIAL ELK WINTER RANGE For the Purpose Of: Protecting crucial elk winter and crucial elk year-long habitat by precluding activities which could cause increased stress and/or displacement during the critical time period (December 1 st to March 30 th). ¹³ . Exception: An exception may be granted if there are no practical alternatives, and the authorized officer determines through analysis and in coordination with the Utah Division of Wildlife Resources that the nature of the actions, as proposed or conditioned, could be fully mitigated. This might occur if seasonal conditions are such that the animals have moved and are not using the specified area during the time they would normally be expected. Factors to be considered would include elk presence or expected elk presence, snow depth, temperature, snow crusting, location of disturbance, forage quantity and quality, animal condition, and expected duration of disturbance. Modification: A modification may be granted if the authorized officer determines thru new habitat studies, coordinated with the Utah Division of Wildlife Resources, that a portion of the leasehold affected by this stipulation does not contain crucial elk winter range.

Uinta Oil & Gas Leasing EIS Reference number and criteria	TIMING LIMITATION STIPULATIONS
	<p>Waiver: A waiver may be granted if the authorized officer determines thru new habitat studies, coordinated with the Utah Division of Wildlife Resources, that the entire lease area affected by this stipulation does not contain any crucial elk winter range.</p>
<u>EIS Reference No. TL – 7</u> Crucial Mule Deer Winter Range ¹⁶	TIMING LIMITATION FOR CRUCIAL MULE DEER WINTER RANGE <p>For the Purpose Of: Protecting crucial mule deer winter range by precluding activities which could cause increased stress and/or displacement during the critical time period (December 1st to April 15th)³.</p> <p>Exception: An exception may be granted if there are no practical alternatives, and the authorized officer determines through analysis and in coordination with the Utah Division of Wildlife Resources that the nature of the actions, as proposed or conditioned, could be fully mitigated. This might occur if seasonal conditions are such that the animals have moved and are not using the specified area during the time they would normally be expected. Factors to be considered would include deer presence or expected deer presence, snow depth, temperature, snow crusting, location of disturbance, forage quantity and quality, animal condition, and expected duration of disturbance.</p> <p>Modification: A modification may be granted if the authorized officer determines thru new habitat studies, coordinated with the Utah Division of Wildlife Resources, that a portion of the leasehold affected by this stipulation does not contain crucial deer winter range.</p> <p>Waiver: A waiver may be granted if the authorized officer determines thru new habitat studies, coordinated with the Utah Division of Wildlife Resources, that the entire lease area affected by this stipulation does not contain any crucial deer winter range.</p>
<u>EIS Reference No. TL – 8</u> Crucial Mule Deer Fawning Habitat ¹⁶	TIMING LIMITATION FOR CRUCIAL MULE DEER FAWNING AREAS <p>For the Purpose Of: Protecting crucial deer fawning areas by precluding activities which could cause increased stress and/or displacement during the critical time period (May 15th to July 15th)¹³.</p> <p>Exception: An exception may be granted if there are no practical alternatives, and the authorized officer determines through analysis and in coordination with the Utah Division of Wildlife Resources that the nature of the actions, as proposed or conditioned, could be fully mitigated.</p> <p>Modification: A modification may be granted if the authorized officer determines thru new habitat studies, coordinated with the Utah Division of Wildlife Resources, that a portion of the leasehold affected by this stipulation does not contain crucial deer fawning habitat.</p> <p>Waiver: A waiver may be granted if the authorized officer determines thru new habitat studies, coordinated with the Utah Division of Wildlife Resources, that the entire lease</p>

Uinta Oil & Gas Leasing EIS Reference number and criteria	TIMING LIMITATION STIPULATIONS
	area affected by this stipulation does not contain any crucial deer fawning habitat.
<u>EIS Reference No. TL – 9</u> Lynx Analysis Units ¹⁵	TIMING LIMITATION FOR LYNX ANALYSIS UNITS For the Purpose Of: Protecting lynx by precluding activities within areas potentially utilized by lynx during the winter which could cause increased stress and/or competition with other predators during the critical time period (December 1 st to March 30 th). Exception: An exception may be granted if there are no practical alternatives, and the authorized officer determines through analysis and in consultation with the U.S. Fish and Wildlife Service and coordination with the Utah Division of Wildlife Resources that the nature of the actions, as proposed or conditioned, could be fully mitigated. Modification: None Waiver: None
<u>EIS Reference No. TL – 12</u> Sage Grouse Brood-Rearing Habitat ¹⁴	TIMING LIMITATION FOR SAGE GROUSE BROOD-REARING HABITAT For the Purpose Of: Protecting sage grouse during the critical breeding and brood-rearing season by precluding activities which could cause increased stress, displacement, and or breeding failures during the critical time period (March 1 st to June 1 st in the Vernon Management Area; March 1 st to June 15 th in the Strawberry Reservoir and Currant Creek Management Areas). Exception: An exception may be granted if the proposed activity is at least 4 miles from any lek, there are no practical alternatives, and the authorized officer determines through analysis and in consultation with the U.S. Fish and Wildlife Service and coordination with the Utah Division of Wildlife Resources that the nature of the actions, as proposed or conditioned, could be fully mitigated. Modification: A modification may be granted if the authorized officer determines thru new habitat studies, coordinated with the U.S. Fish and Wildlife Service and Utah Division of Wildlife Resources, that a portion of the leasehold affected by this stipulation does not contain sage grouse breeding or brood-rearing habitat. Waiver: A waiver may be granted if the authorized officer determines thru new habitat studies, coordinated with the U.S. Fish and Wildlife Service and Utah Division of Wildlife Resources, that the entire lease area affected by this stipulation does not contain any sage grouse breeding or brood-rearing habitat.
<u>EIS Reference No. TL – 13</u> Sage Grouse	TIMING LIMITATION FOR SAGE GROUSE WINTER HABITAT

Uinta Oil & Gas Leasing EIS Reference number and criteria	TIMING LIMITATION STIPULATIONS
Winter Habitat ¹⁴	<p>For the Purpose Of: Protecting sage grouse during the critical breeding and brood-rearing season by precluding activities which could cause increased stress, displacement, and or breeding failures during the critical time period (November 15th to March 1st in the Vernon Management Area; November 1st to March 15th in the Strawberry Reservoir and Upper Provo Management Areas).</p> <p>Exception: An exception may be granted if there are no practical alternatives, and the authorized officer determines through analysis and in consultation with the U.S. Fish and Wildlife Service and coordination with the Utah Division of Wildlife Resources that the nature of the actions, as proposed or conditioned, could be fully mitigated.</p> <p>Modification: A modification may be granted if the authorized officer determines thru new habitat studies, coordinated with the U.S. Fish and Wildlife Service and Utah Division of Wildlife Resources, that a portion of the leasehold affected by this stipulation does not contain sage grouse winter habitat.</p> <p>Waiver: A waiver may be granted if the authorized officer determines thru new habitat studies, coordinated with the U.S. Fish and Wildlife Service and Utah Division of Wildlife Resources, that the entire lease area affected by this stipulation does not contain any sage grouse winter habitat.</p>
<u>EIS Reference No. TL – 14</u> Aquatic and Terrestrial Emphasis Areas (MP = 3.3)	TIMING LIMITATION FOR AQUATIC AND TERRESTRIAL EMPHASIS AREAS <p>For the Purpose Of: Maintaining quality habitat to contribute toward maintenance and/or recovery of plant and animal species. This includes habitats of threatened, endangered, sensitive, Management Indicator Species (MIS), and crucial big game winter range. Operations may need to be limited during key periods. Specific applicable depend on the specific area, and species and habitats occurring there.</p> <p>Exception: An exception may be granted if the authorized officer determines through analysis and, as appropriate in consultation with the U.S. Fish and Wildlife Service and coordination with the Utah Division of Wildlife Resources, that the nature of the actions, as proposed or conditioned, could be fully mitigated.</p> <p>Modification: None</p> <p>Waiver: None</p>
<u>EIS Reference No. TL – 15</u> Dispersed Recreation Emphasis Areas (MP = 4.4)	TIMING LIMITATION FOR DISPERSED RECREATION EMPHASIS AREAS <p>For the Purpose Of: Protecting dispersed recreation in areas with concentrations of recreational use. Development and activity would be limited during holidays and high use periods.</p> <p>Exception: An exception may be granted if the authorized officer determines through</p>

Uinta Oil & Gas Leasing EIS Reference number and criteria	TIMING LIMITATION STIPULATIONS
	<p>analysis that the nature of the actions, as proposed or conditioned, could be fully mitigated.</p> <p>Modification: None</p> <p>Waiver: None</p>

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<u>EIS Reference No. SS – 1</u> Cultural Resources - Forest-wide	<p>CULTURAL RESOURCES STIPULATION</p> <p>For the Purpose of: Protecting cultural resources. This lease may be found to contain historic properties and/or resources protected under the National Historic Preservation Act (NHPA), American Indian Religious Freedom Act, Native American Graves Protection and Repatriation Act, E.O. 13007, or other statutes and executive orders. The USFS will not approve any ground disturbing activities that may affect any such properties or resources until it completes its obligations under applicable requirements of the NHPA and other authorities. The USFS may require modification to exploration or development proposals to protect such properties, or disapprove any activity that is likely to result in adverse effects that cannot be successfully avoided, minimized or mitigated.</p> <p>Exception: None</p> <p>Modification: None</p> <p>Waiver: None</p>
<u>EIS Reference No. SS – 2</u> Threatened and Endangered Species – Forest-wide	<p>THREATENED AND ENDANGERED SPECIES STIPULATION</p> <p>For the Purpose of: Protecting threatened and endangered species. The lease area may now or hereafter contain plants, animals or their habitats determined to be threatened, endangered, or other special status species. The USFS may recommend modifications to exploration and development proposals to further its conservation and management objective to avoid USFS-approved activity that would contribute to a need to list such species or their habitat. USFS 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 USFS will not approve any ground-disturbing activity until it completes its obligations under applicable requirements of the Endangered</p>

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	<p>Species Act as amended, 16 U.S.C. 1531 et seq. including completion of any required procedure for conference or consultation.</p> <p>Exception: None</p> <p>Modification: None</p> <p>Waiver: None</p>
<u>EIS Reference No. SS – 3</u> Inventoried Roadless Areas (identified in Appendix C of the FEIS for the Revised Uinta Forest Plan)	STIPULATION FOR NO GROUND DISTURBANCE IN ROADLESS AREAS <p>For the Purpose of: Protecting the roadless and wilderness characteristics of these lands. Construction of roads, pipelines and other similar facilities and reconstruction of roads related to oil and gas exploration and development activities would not be allowed on these lands. This stipulation does not apply to other activities such as seismic activity, vegetation removal, etc.</p> <p>Exception: None</p> <p>Modification: A modification may be granted if the Forest Service determines that a portion of the lease area affected by this stipulation no longer contains any inventoried roadless area.</p> <p>Waiver: A waiver may be granted if the Forest Service determines that the entire lease area affected by this stipulation no longer contains any inventoried roadless area.</p>
<u>EIS Reference No. SS – 4</u> Central Utah Project (CUP) Mitigation Lands	STIPULATION FOR NO GROUND DISTURBANCE ON CUP MITIGATION LANDS <p>For the Purpose Of: Protecting values for which these lands were acquired as mitigation for CUP activities. Construction of roads, pipelines and other similar facilities and reconstruction of roads on these lands would not be allowed.</p> <p>Exception: An exception may be granted if the authorized officer, in coordination with the U.S. Department of the Interior and Utah Reclamation Mitigation and Conservation Commission (URMCC), determines through analysis that the nature of the actions, as proposed or conditioned, could be fully mitigated and the values for which these lands were acquired as mitigation properties fully sustained.</p> <p>Modification: None</p> <p>Waiver: None</p>
<u>EIS Reference No. SS – 5</u> Air Quality	STIPULATION FOR AIR QUALITY <p>For the Purpose Of: Protecting air quality and to comply with Clean Air Act requirements. The lessee/operator is given notice that to assure compliance with the applicable laws and regulations</p>

Uinta Oil & Gas Leasing EIS Reference number and criteria	SPECIAL STIPULATIONS
	<p>regarding air quality, they will be required to apply the following measures:</p> <ol style="list-style-type: none"> All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 grams of NO_x per horsepower-hour. All new and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gram of NO_x per horsepower-hour. Tier II rig standards will be required for all new and re-located rigs. All new and replaced pneumatic controllers will be a no bleed or low bleed design. Emission controls will be utilized on all condensate storage batteries with emissions greater than 5 tons/year. This will include all tank batteries located at well sites, centralized production facilities and compressor stations. The emission controls may consist of vapor recovery, thermal oxidation or other available technologies. At a minimum, the applied control technology must be capable of reducing emissions by 95 percent. BMPs will be employed during completion operations to minimize emissions to the atmosphere as a result of well flowback. The preferential BMP shall be "Green Completion" where the well flowback is captured, separated, and sold as product. When Green Completions are not technically reasonable, flaring or other control practices shall be employed to minimize venting emissions directly to the atmosphere. Emissions from engines will be controlled utilizing BACT (Best Available Control Technology) in accordance with UDAQ regulations. Emissions controls may consist of lean-burn technology, catalysts, air/fuel ratio controllers or other technologies as they become commercially available. Engines located at facilities outside of UDAQ jurisdiction (EPA jurisdiction) will be controlled in a like manner. This includes dyhydrator VOC emission controls to +90% efficiency. <p>Exception: This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.</p> <p>Modification: None</p> <p>Waiver: None</p>
<u>EIS Reference No. SS – 6</u> Water Quality	<p>STIPULATION FOR WATER QUALITY:</p> <p>For the Purpose of: Maintaining water quality to protect TES species habitat, and to meet cold water fisheries beneficial uses and comply with Clean Water Act requirements. The lessee/operator is given notice that to assure compliance with the applicable laws and regulations regarding protection and non-degradation of water quality, they will be required to install water quality monitoring devices where roads are constructed and/or where well pads are located within 500 feet of fish-bearing waters. During storm events, if the difference in turbidity between monitoring sites just above and below the well site or road crossing exceeds 10 nephelometric turbidity units (NTU), then operations will be temporarily suspended, Utah Division of Water Quality and USFS will be notified, and an inspection will be conducted. Upon inspection, if BMPs are not found to be effective at controlling sediment then the lessee will be required to repair or supplement with additional BMPs. If BMPs are found to be effective at controlling sediment and other sources are</p>

Uinta Oil & Gas Leasing EIS Reference number and criteria	SPECIAL STIPULATIONS
	<p>found to be the cause (e.g., livestock or people disturbing the stream), then oil and gas operations would continue.</p> <p>Exception: None</p> <p>Modification: None</p> <p>Waiver: None</p>
<u>EIS Reference No. SS – 7</u> Aquatic Fauna	<p>STIPULATION FOR AQUATIC FAUNA:</p> <p>For the Purpose of: Protecting aquatic fauna by maintaining adequate stream flows, and allowing operators to fill water trucks in a reasonable amount of time (~10-15 minutes at 300 gpm pump rate). Implementation would maintain instream flows and facilitate compliance with the LRMP²⁰, NFMA, ESA, and CWA. Location of the well or roads would not be impacted but this may affect the water source location(s).</p> <p>Operator would not withdraw water for drilling operations from streams flowing < 5 cfs.¹⁸ For streams flowing 5 to 10 cfs, maximum pumping rate = 300 gpm. For streams flowing > 10 cfs, maximum pumping rate = 600 gpm. For lakes and ponds, no drawdown is allowed 0.1 feet below the water surface elevation. Minimum size of pond to use as a withdrawal source is 1 acre.¹⁹</p> <p>Exception: None</p> <p>Modification: None</p> <p>Waiver: None</p>
<u>EIS Reference No. SS – 8</u> Invasive Species	<p>STIPULATION FOR INVASIVE SPECIES:</p> <p>For the Purpose of: Protecting natural terrestrial and aquatic ecosystems from the spread of invasive species. Location of the well or roads would not be impacted, but this may affect water and gravel source location(s). All equipment must be cleaned of all oil and grease, soil, mud and weeds prior to coming on forest. Only weed free soil and gravel sources should be used or transported on forest.</p> <p>The lessee/operator must clean and disinfect all pumping equipment before coming on the Forest, and between pump sites to prevent the spread of undesirable species. Cleaning would be done with high pressure and high temperature (>140°F) wash systems or equipment can be cleaned of mud, plants, animals or other debris and all water drained from the tanks and motors and dried (7 days summer, 18 days spring/fall and 30 days in the winter) or freeze (3 days).</p> <p>Exception: An exception may be granted if the Forest Service determines through analysis, after coordinating with the Utah Division of Wildlife Resources, that the nature of the actions, as proposed or conditioned, could fully mitigate concerns about invasive species.</p>

Uinta Oil & Gas Leasing EIS Reference number and criteria	SPECIAL STIPULATIONS
	Modification: None Waiver: None

* Numbers are non-sequential. Only lease stipulations applicable to Alternative 4 (selected Alternative) of the Uinta National Forest Oil and Gas Leasing EIS are incorporated into the Forest Plan.

¹ **DEFINITIONS** (RMRCC, 1989):

Exception: Case-by-case exemption from a lease stipulation. The stipulation continues to apply to all other sites within the leasehold to which the restrictive criteria applies.

Modification: Fundamental change to the provisions of a lease stipulation, either temporarily or for the term of the lease. A modification may, therefore, include an exemption from or alteration to a stipulated requirement. Depending on the specific modification, the stipulation may or may not apply to other sites within the leasehold to which the restrictive criteria applied.

Waiver: Permanent exemption from a lease stipulation. The stipulation no longer applies anywhere within the leasehold.

² **2003 UINTA NATIONAL FOREST LAND AND RESOURCE MANAGEMENT PLAN DIRECTION:**

Guidelines: “**Guidelines** describe how management activities and uses *should* be conducted, but are not required actions. If a Forest Service action is not consistent with a **guideline**, a Forest plan amendment would not be necessary. However, the rationale for why the guideline would not be met must be disclosed and documented in the project analysis.” (2003 LRMP, pg. v)

Standards: “**Standards** are management direction that must be followed or met. They describe how resource management activities and uses must be conducted. In cases where a **standard** would not be met through a Forest Service action, a site-specific Forest Plan amendment would be necessary, or the activity or use would need to be modified or discontinued.” (2003 LRMP, pg. v)

Specific standards and guidelines applicable to construction of roads, pipelines and other ancillary facilities includes:

- **M&E-5 Guideline**: Mineral operation structures, support facilities, and roads should be located outside of Riparian Habitat Conservation Areas (RHCAs). Where no alternative to locating such facilities in RHCAs exists, locate and construct the facilities to minimize impacts to RHCAs and streams and adverse effects on aquatic organisms. (LRMP, pg 3-5)
- **M&E-6 Guideline**: Minimize adverse effects to native aquatic organisms from mineral operations. (LRMP, pg 3-5)
- **M&E-8 Standard**: Reclamation will be accomplished concurrent with development operations. (LRMP, pg 3-5)
- **M&E-9 Guideline**: One hundred percent of areas disturbed by mineral operations should be recovered or reclaimed when the development activity is completed. (LRMP, pg 3-5)
- **ROS-6 Standard**: Road construction and reconstruction opportunities are allowed by Recreation Opportunity Spectrum (ROS) class as described in the table below. (LRMP, pg. 3-36)

Road Construction Opportunities by Recreation Opportunity Spectrum (ROS) Class

Allowable Activity	Recreation Opportunity Spectrum (ROS)					
	P	SPNM	SPM	RN	RM	R
Construction of temporary roads	No	No	Yes	Yes	Yes	Yes
Construction of new classified roads	No	No	No	Yes	Yes	Yes
Reconstruction or realignment of existing classified roads to address public safety and resource concerns	No	No	Yes	Yes	Yes	Yes

P	Primitive	RN	Roaded Natural
SPNM	Semi-Primitive Non-Motorized	RM	Roaded Modified
SPM	Semi-Primitive Motorized	R	Rural

- **MP-2.4-4 Standard:** No road construction or reconstruction is allowed. (LRMP, pg 3-42)
- **MP-3.2-6 and MP-3.5-5 Standard:** Road density and design will be compatible with watershed and habitat objectives. (LRMP, pg. 3-43 and pg. 3-44)
- **MP-8.3-6 Standard:** Non-recreation developments are limited to administrative purposes. (LRMP, pg. 3-51)

3 Dates for protection of crucial mule deer winter range were modified from December 1st to March 30th to December 1st to April 15th based on UDWR recommendations.

4 Forest Plan Guideline Scene-2 states: *“Forest resource uses or activities should meet the assigned objectives for scenery management as displayed on the map for each management area located in Chapter 5.”* (2003 Forest Plan, pg. 3-31)

5 This stipulation would be applied using the 2003 LRMP allocation.

6 This stipulation would be applied using the 2003 LRMP allocation.

7 This stipulation would be applied using the 2003 LRMP allocation.

10 This stipulation would apply to areas allocated to this management prescription; and assigned to the listed ROS allocation the 2003 Uinta National Forest Land and Resource Management Plan.

11 This stipulation would apply to areas allocated to this management prescription in the 2003 Uinta National Forest Land and Resource Management Plan.

13 Dates from the 2003 Uinta National Forest Land and Resource Management Plan, including Correction #4 (11/27/2006).

14 As mapped by UDWR (2006) and in the 2003 Uinta National Forest Land and Resource Management Plan (pg. E-3).

15 As mapped the 2003 Uinta National Forest Land and Resource Management Plan (pg. E-4).

16 As mapped by Utah Division of Wildlife Resources (20060701).

17 As mapped the 2003 Uinta National Forest Land and Resource Management Plan (pg. E-7, or as shown on the various Management Area maps in Chapter 5).

18 Streams flowing less than 5 cfs are too small to support withdrawals without affecting water quality and aquatic species.

19 Pond drawdown limit is to protect eggs and animals along the shoreline. Minimum pond size is because most ponds < 1 acre are shallow and withdrawal of water is more pronounced along the shoreline.

20 This stipulation was developed to respond to the following 2003 Uinta National Forest Land and Resource Management Plan requirements:

- **Aqua-8 Guideline:** Locate water drafting sites to avoid significant adverse effects to native aquatic organisms and instream flows. Locate such sites in a manner that does not retard or prevent attainment of aquatic Forest Plan management direction. (2003 LRMP, pg. 3-2)
- **Aqua-7 Standard:** Prohibit storage of fuels and other toxicants within Riparian Habitat Conservation Areas (RHCAs). Do not fuel or service equipment in RHCAs unless there are no other alternatives. If

such sites are required within an RHCA, appropriate containment measures must be employed. Construction or maintenance equipment service areas shall be located and treated to prevent gas, oil, or other contaminants from washing or leaching into streams. Equipment working in open water and wetlands shall be cleaned prior to entry into such areas to remove gas, oil, and other contaminants.

- **S&W-11 Guideline:** Minimum instream flows should be established and maintained for all fish-bearing streams as a condition of any license or permit issuance or renewal for facilities associated with hydropower, snowmaking, water transmission, or mining activities that involve the use of water.(LRMP, pg. 3-10)
- **M&E-6 Guideline:** Minimize adverse effects to native aquatic organisms from mineral operations. (LRMP, pg. 3-5)

APPENDIX I: LEASE NOTICES

Lease Notices transmit information about laws, regulations, or orders. At a minimum, the following Lease Notices will be attached to leases. Additional Lease Notices may be added prior to lease issuance.

LEASE NOTICE	COMMENTS
<p>NOTICE FOR NATIONAL FOREST SYSTEM LANDS UNDER JURISDICTION OF DEPARTMENT OF AGRICULTURE</p> <p>The permittee/lessee must comply with all the rules and regulations of the Secretary of Agriculture set forth at Title 36, Chapter II, of the Code of Federal Regulations governing the use and management of the National Forest System (NFS) when not inconsistent with the rights granted by the Secretary of Interior in the permit. The Secretary of Agriculture's rules and regulations must be complied with for (1) all use and occupancy of the NFS prior to approval of an exploration plan by the Secretary of the Interior, (2) uses of all existing improvements, such as forest development roads, within and outside the area permitted by the Secretary of the Interior, and (3) use and occupancy of the NFS not authorized by an exploration plan approved by the Secretary of the Interior. All matters related to this stipulation are to be addressed to: Forest Supervisor or District Ranger, Uinta-Wasatch-Cache National Forest, who is the authorized representative of the Secretary of Agriculture.</p>	<p><u>Uinta Oil & Gas Leasing EIS Reference No. LN-1*</u>.</p>
<p>LEASE NOTICE – CENTRAL UTAH PROJECT FACILITIES</p> <p>The lessee/operator is given notice that infrastructure such as pipelines, tunnels, powerlines, etc. for the Central Utah Project is present within the lease area that must be protected during exploration and production. Infrastructure may include powerlines, pipelines, tunnel systems, etc. The type and extent of protection measures required depend upon the specifics of the proposed exploration/production operation. Modifications to the Surface Use Plan of Operations may be required to ensure protection of this infrastructure.</p>	<p><u>Uinta Oil & Gas Leasing EIS Reference No. LN-2.</u> This lease notice advises the lessee that Central Utah Project (CUP) infrastructure is present within the lease area and this must be protected during exploration and production activities.</p>
<p>LEASE NOTICE – PRESENCE OF THREATENED AND ENDANGERED SPECIES</p> <p>The lessee/operator is given notice that lands in this lease have been identified as containing habitat for the federally listed threatened or endangered species. Lessee would be required to conduct surveys for threatened and endangered species believed to be present within habitat potentially affected by lease operations. Lessee would be required, if necessary, to apply appropriate conservation measures to mitigate potential impacts to threatened or endangered species and/or their critical habitat. The type and extent of survey and conservation measures required depend upon the specifics of the proposed exploration/production operation and the particular species and potential habitat affected. Modifications to the Surface Use Plan of Operations may be required in order to protect these species and/or habitat in accordance with Section 6 of the lease terms, and the Endangered Species Act.</p>	<p><u>Uinta Oil & Gas Leasing EIS Reference No. LN-3.</u> SLT allows for minor surveys and some mitigation. This would advise lessees that T&E species are believed to be present in this lease, and more extensive surveys and mitigation may be necessary.</p>
<p>LEASE NOTICE - ENDANGERED FISH OF THE UPPER COLORADO RIVER DRAINAGE BASIN</p> <p>The Lessee/Operator is given notice that the lands in these parcels have</p>	<p><u>EIS Reference No. LN-4.</u> Applicable to all leases in the Colorado River</p>

LEASE NOTICE	COMMENTS
<p>watersheds that are tributary to designated Critical Habitat for the Colorado River fish (bonytail, humpback chub, Colorado pikeminnow, and razorback sucker) listed as endangered under the Endangered Species Act.</p> <p>Water depletions from <i>any</i> portion of the Upper Colorado River drainage basin above Lake Powell are considered to adversely affect or adversely modify the critical habitat of the four resident endangered fish species, and must be evaluated with regard to the criteria described in the Upper Colorado River Endangered Fish Recovery Program. Formal consultation with USFWS is required for all depletions. All depletion amounts must be reported to BLM.</p> <p>Additional measures to avoid or minimize effects to the species may be developed and implemented in consultation with the U.S. Fish and Wildlife Service between the lease sale stage and lease development stage to ensure continued compliance with the ESA.</p>	<p>System drainage. Language provided by U.S. Fish and Wildlife Service.</p>
<p>LEASE NOTICE – JUNE SUCKER, ENDANGERED FISH OF THE UTAH LAKE BASIN</p> <p>The Lessee/Operator is given notice that the lands in these parcels have watersheds that are tributary to designated Critical Habitat for the June Sucker which is listed as endangered under the Endangered Species Act.</p> <p>Water depletions from <i>any</i> portion of the Utah Lake drainage basin are considered to adversely affect or adversely modify the critical habitat of the endangered fish species, and must be evaluated. Formal consultation with USFWS is required for all depletions. All depletion amounts must be reported to BLM.</p> <p>Additional measures to avoid or minimize effects to the species may be developed and implemented in consultation with the U.S. Fish and Wildlife Service between the lease sale stage and lease development stage to ensure continued compliance with the ESA.</p>	<p><u>Uinta Oil & Gas Leasing EIS Reference No. LN-5.</u> Applicable to all leases in the Utah Lake drainage.</p>
<p>LEASE NOTICE – CANADA LYNX</p> <p>The Lessee/Operator is given notice that the lands in this parcel contains potential habitat for Canada lynx, a federally listed species. Avoidance or use restrictions may be placed on portions of the lease. Application of appropriate measures will depend on the nature of the proposed development, as well as proposed timing and location. The following avoidance and minimization measures have been designed to ensure activities carried out on the lease are in compliance with the Endangered Species Act. Integration of, and adherence to these measures will facilitate review and analysis of any submitted permits under the authority of this lease. Following these measures could reduce the scope of Endangered Species Act, Section 7 consultation at the permit stage.</p> <p>Current avoidance and minimization measures are generally adapted from the standards and guidelines listed in Chapter 7 (Conservation Measures) of the LCAS (Ruediger 2000) and include the following:</p> <p>Surveys will be required prior to operations unless species occupancy and distribution information is complete and available. All Surveys must be conducted by qualified individual(s), and be conducted according to protocol. Based on data and information gathered in item 1, lease activities within, or in</p>	<p><u>Uinta Oil & Gas Leasing EIS Reference No. LN-6.</u> No Lynx Analysis Units are within lands available for leasing under Alternative 1. Language provided by U.S. Fish and Wildlife Service.</p>

LEASE NOTICE	COMMENTS
<p>proximity to, occupied lynx habitats will require monitoring throughout the duration of the project. To ensure desired results are being achieved, minimization measures will be evaluated and, if necessary, Section 7 consultation reinitiated.</p> <p>Avoid all surface disturbing actions within occupied denning habitat.</p> <p>Avoid construction and surface disturbing actions in proximity to potential denning habitat during the breeding season (mid-April to July).</p> <p>Activities involved with routine maintenance and operation will only occur during daytime hours, when lynx are least active.</p> <p>Where technically and economically feasible, wells will be remotely monitored within lynx habitat.</p> <p>Limit disturbance to and within suitable habitat by staying on approved access routes.</p> <p>Limit new access routes created by the project.</p> <p>Dirt and gravel roads traversing lynx habitat (particularly those that could become highways) should not be paved or otherwise upgraded (e.g., straightening of curves, widening of roadway etc.) in a manner that is likely to lead to significant increases in traffic volume, traffic speed, increased width of the cleared ROW, or would foreseeably contribute to development or increases in human activity in lynx habitat. When these types of upgrades are proposed, a thorough analysis of potential direct and indirect impacts to lynx and lynx habitat should be conducted.</p> <p>Minimize impacts to habitats that support lynx prey.</p> <p>Where technically and economically feasible, use directional drilling or multiple wells from the same pad to reduce surface disturbance and to minimize drilling in suitable lynx habitat.</p> <p>Additional measures may also be employed to avoid or minimize effects to the species at the development stage and will be developed and implemented in consultation with the U.S. Fish and Wildlife Service to ensure continued compliance with the Endangered Species Act.</p>	
<p>LEASE NOTICE – UTE LADIES’ – TRESSES (<i>SPIRANTHES DILUVIALIS</i>)</p> <p>In order to minimize effects to the federally threatened Ute ladies'-tresses, the following avoidance and minimization measures were developed. Integration of and adherence to these measures will help ensure the activities carried out during oil and gas development (including but not limited to drilling, production, and maintenance) are in compliance with the Endangered Species Act (ESA). Ute ladies'-tresses habitat is provided some protection under Executive Orders 11990 (wetland protection) and 11988 (floodplain management), as well as section 404 of the Clean Water Act. Although plants, habitat, or populations may be afforded some protection under these regulatory mechanisms, the following conservation measures should be included in the Plan of Development:</p> <p>Pre-project habitat assessments will be completed across 100% of the project disturbance area, including areas where hydrology might be affected by project activities, within potential habitat¹ prior to any ground disturbing activities to determine if suitable Ute ladies'-tresses habitat is present.</p> <p>Within suitable habitat², site inventories will be conducted to determine occupancy. Inventories:</p> <p>Must be conducted by qualified individual(s) and according to Forest Service</p>	<p><u>Uinta Oil & Gas Leasing EIS Reference No. LN-7.</u> Language provided by U.S. Fish and Wildlife Service.</p>

LEASE NOTICE	COMMENTS
<p>(USFS) and U.S. Fish and Wildlife Service (USFWS) accepted survey protocols, will be conducted in suitable and occupied³ habitat for all areas proposed for surface disturbance or areas that could experience direct or indirect changes in hydrology from project activities, Will be conducted prior to initiation of project activities and within the same growing season, at a time when the plant can be detected, and during appropriate flowering periods (usually August 1st and August 31st in the Uintah Basin; however, surveyors should verify that the plant is flowering by contacting a USFS or USFWS botanist or demonstrating that the nearest known population is in flower), Will occur within 300 feet from the centerline of the proposed right-of-way for surface pipelines or roads; and within 300 feet from the perimeter of disturbance for the proposed well pad including the well pad, Will include, but not be limited to, plant species lists, habitat characteristics, source of hydrology, and estimated hyroperiod, and Will be valid until August 1st the following year.</p> <p>Design project infrastructure to minimize direct or indirect impacts to suitable habitat² both within and downstream of the project area: Alteration and disturbance of hydrology will not be permitted, Reduce well pad size to the minimum needed, without compromising safety, Limit new access routes created by the project, Roads and utilities should share common right-of-ways where possible, Reduce width of right-of-ways and minimize the depth of excavation needed for the road bed, Construction and right-of-way management measures should avoid soil compaction that would impact Ute ladies' tresses habitat, Off-site impacts or indirect impacts should be avoided or minimized (i.e. install berms or catchment ditches to prevent spilled materials from reaching occupied or suitable habitat through either surface or groundwater), Place signing to limit off-road travel in sensitive areas, Stay on designated routes and other cleared/approved areas, and All disturbed areas will be re-vegetated with species approved by USFS botanists.</p> <p>Within occupied habitat³, project infrastructure will be designed to avoid direct disturbance and minimize indirect impacts to populations and to individual plants: Follow the above (#3) recommendations for project design within suitable habitats, Buffers of 300 feet minimum between right of way (roads and surface pipelines) or surface disturbance (well pads) and plants and populations will be incorporated, Surface pipelines will be laid such that a 300-foot buffer exists between the edge of the right of way and the plants, using stabilizing and anchoring techniques when the pipeline crosses habitat to ensure the pipelines don't move towards the population, Before and during construction, areas for avoidance should be visually identifiable in the field, e.g., flagging, temporary fencing, rebar, etc., Where technically and economically feasible, use directional drilling or multiple wells from the same pad, Designs will avoid altering site hydrology and concentrating water flows or sediments into occupied habitat, Place produced oil, water, or condensate tanks in centralized locations, away</p>	

LEASE NOTICE	COMMENTS
<p>from occupied habitat, with berms and catchment ditches to avoid or minimize the potential for materials to reach occupied or suitable habitat, and Minimize the disturbed area of producing well locations through interim and final reclamation. Reclaim well pads following drilling to the smallest area possible.</p> <p>Occupied Ute ladies'-tresses habitats within 300 feet of the edge of the surface pipelines' right-of-ways, 300 feet of the edge of the roads' right-of-ways, and 300 feet from the edge of the well pad shall be monitored for a period of three years after ground disturbing activities. Monitoring will include annual plant surveys to determine plant and habitat impacts relative to project facilities. Habitat impacts include monitoring any changes in hydrology due to project related activities. Annual reports shall be provided to the USFS and the USFWS. To ensure desired results are being achieved, minimization measures will be evaluated and may be changed after a thorough review of the monitoring results and annual reports during annual meetings between the USFS and USFWS.</p> <p>Reinitiation of section 7 consultation with the USFWS will be sought immediately if any loss of plants or occupied habitat for the Ute ladies'-tresses is anticipated as a result of project activities.</p> <p>Additional site-specific measures may also be employed to avoid or minimize effects to the species. These additional measures will be developed and implemented in consultation with the USFWS to ensure continued compliance with the ESA.</p> <p>¹ <i>Potential habitat</i> is defined as areas which satisfy the broad criteria of the species habitat description; usually determined by preliminary, in-house assessment.</p> <p>² <i>Suitable habitat</i> is defined as areas which contain or exhibit the specific components or constituents necessary for plant persistence; determined by field inspection and/or surveys; may or may not contain Ute ladies'-tresses. Habitat descriptions can be found in Recovery Plans and Federal Register Notices for the species at <http://www.fws.gov/endangered/wildlife.html>.</p> <p>³ <i>Occupied habitat</i> is defined as areas currently or historically known to support Ute ladies'-tresses; synonymous with "known habitat."</p>	
<p>LEASE NOTICE – CLAY PHACELIA (<i>PHACELIA ARGILLACEA</i>)</p> <p>In order to minimize effects to the federally endangered Clay phacelia, the Forest Service (USFS) in coordination with the U.S. Fish and Wildlife Service (USFWS), developed the following avoidance and minimization measures. Integration of and adherence to these measures will help ensure the activities carried out during oil and gas development (including but not limited to drilling, production, and maintenance) are in compliance with the Endangered Species Act (ESA). Clay phacelia habitat is provided some protection under various stipulations including those allowing no surface occupancy on slopes greater than 35 percent, and no surface occupancy on slopes with unstable soils. Although plants, habitat, or populations may be afforded some protection under these regulatory mechanisms, the following conservation measures should be included in the Plan of Development:</p> <p>Pre-project habitat assessments will be completed across 100% of the project disturbance area, including areas where steep slopes and unstable soils might be affected by project activities, within potential habitat⁽¹⁾ prior to any ground disturbing activities to determine if suitable Clay phacelia habitat is present.</p>	<p><u>Uinta Oil & Gas</u> <u>Leasing EIS</u> <u>Reference No. LN-8.</u></p>

LEASE NOTICE	COMMENTS
<p>Within suitable habitat⁽²⁾, site inventories will be conducted to determine occupancy. Inventories:</p> <ul style="list-style-type: none"> Must be conducted by qualified individual(s) and according to USFS and USFWS accepted survey protocols, Will be conducted in suitable and occupied⁽³⁾ habitat for all areas proposed for surface disturbance or areas that could experience direct or indirect changes from project activities, Will be conducted prior to initiation of project activities and within the same growing season, at a time when the plant can be detected, and during appropriate flowering periods (usually June 1st through July 15th); however, surveyors should verify that the plant is flowering by contacting a USFS botanist or demonstrating that the nearest known population is in flower), Will occur within 300 feet of the proposed right-of-way for surface pipelines or roads; and within 300 feet from the perimeter of disturbance for the proposed well pad including the well pad, Will include, but not be limited to, plant species lists, habitat characteristics, including percent slope, soil taxonomy in occupied, Will be valid until June 1st the following year. <p>Design project infrastructure to minimize direct or indirect impacts to suitable habitat² both within the project area and in any adjacent suitable habitat:</p> <ul style="list-style-type: none"> Alteration and disturbance of steep slopes with unstable soils will be minimized. Reduce well pad size to the minimum needed, without compromising safety, Limit new access routes created by the project, Roads and utilities should share common right-of-ways where possible, Reduce width of right-of-ways and minimize the depth of excavation needed for the road bed, Construction and right-of-way management measures should avoid or minimize to the extent practical soil compaction and soil erosion/movement that would impact clay phacelia habitat. Project areas or activities would be permitted to occur below, but not immediately above any suitable habitat locations, unless the project is designed or technology used to prevent direct or indirect impacts to suitable habitat. Off-site impacts or indirect impacts should be avoided or minimized to the extent practicable (i.e. install berms or catchment ditches to prevent spilled materials from reaching occupied or suitable habitat through either surface or groundwater), Place signing to limit off-road travel in sensitive areas, Stay on designated routes and other cleared/approved areas, and All disturbed areas will be re-vegetated with species approved by USFS and USFWS botanists, and, <p>No oil and gas project activities will be permitted to occur within or adjacent to occupied habitat³ or reintroduction sites⁽⁴⁾.</p> <p>Reinitiation of section 7 consultation with the Service will be sought immediately if any loss of plants or occupied habitat for the Clay phacelia is anticipated as a result of project activities.</p> <p>Additional site-specific measures may also be employed to avoid or minimize effects to the species and to avoid or minimize effects to suitable habitat. These additional measures will be developed and implemented in consultation with the USFWS to ensure continued compliance with the ESA.</p>	

LEASE NOTICE	COMMENTS
<p><i>Potential habitat is defined as areas which satisfy the broad criteria of the species habitat description; usually determined by preliminary, in-house assessment.</i></p> <p><i>Suitable habitat is defined as areas which contain or exhibit the specific components or constituents necessary for plant persistence; determined by field inspection and/or surveys; may or may not contain Clay phacelia. Habitat descriptions can be found in Recovery Plans and Federal Register Notices for the species at < http://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=Q203 >.</i></p> <p><i>Occupied habitat is defined as areas currently or historically known to support Clay phacelia; synonymous with "known habitat."</i></p> <p><i>Reintroduction site(s) is defined as areas specifically designated as sites for reintroduction onto National Forest System Lands that will be or are currently being utilized for reintroduction of the species; synonymous with "Occupied" and "known habitat."</i></p>	
<p>LEASE NOTICE – BALD EAGLE HABITAT</p> <p>The lessee/operator is given notice that lands in this lease have been identified as containing Bald Eagle Habitat. Modifications to the Surface Use Plan of Operations may be required in order to protect the Bald Eagle and/or habitat from surface disturbing activities within 1.0 miles of occupied or historically occupied nests during the January 1 thru August 31st time period, in accordance with Section 6 of the lease terms and Bald and Golden Eagle Protect Act (16 U.S.C. 668-668c).</p>	<p><u>Uinta Oil & Gas Leasing EIS Reference No. LN-9.</u></p>
<p>LEASE NOTICE - GOLDEN EAGLE NEST SITES</p> <p>The lessee/operator is given notice that this lease has been identified as containing golden eagle nest sites. to the Surface Use Plan of Operations may be required in order to protect golden eagles and/or their habitat from surface disturbing activities within 0.5 miles of occupied or historically active nests during the January 1 thru August 31st time period, in accordance with section 6 of the lease terms, Bald and Golden Eagle Protect Act (16 U.S.C. 668-668c).</p>	<p><u>Uinta Oil & Gas Leasing EIS Reference No. LN-10.</u></p>
<p>LEASE NOTICE - MIGRATORY BIRD</p> <p>The lessee/operator is given notice that surveys for nesting migratory birds may be required during migratory bird breeding season whenever surface disturbances and/or occupancy is proposed in association with fluid mineral exploration and development within priority habitats. Surveys should focus on identified Utah Partners in Flight priority bird species and FWS Birds of Conservation Concern in Utah. Field surveys will be conducted as determined by the authorized officer. Based on the result of the field survey, the authorized officer will determine appropriate buffers and timing limitations. This notice may be waived, excepted, or modified by the authorized officer if either the resource values change or the lessee/operator demonstrates that adverse impacts can be mitigated.</p>	<p><u>Uinta Oil & Gas Leasing EIS Reference No. LN-11.</u> Migratory Bird Treaty Act of 1918 compliance. Also per Memorandum of Understanding between FS/FWS to Promote the Conservation of Migratory Birds (December 2008).</p>
<p>LEASE NOTICE – SENSITIVE SPECIES</p> <p>The lessee/operator is given notice that lands in the lease area have been identified as containing potential habitat for plant and animal species listed on the USFS Intermountain Region Sensitive Species List and/or Utah Sensitive Species List (i.e., sensitive species), and that no surface use or otherwise disruptive activity would be allowed that would result in impacts to individuals or populations of these sensitive species that would result in a trend toward listing of these species under the Endangered Species Act.</p> <p>Lessee will be required to survey potentially affected habitat using scientific methods approved by the USFS. If such habitat is occupied and the species</p>	<p><u>Uinta Oil & Gas Leasing EIS Reference No. LN-12.</u> Forest Service Manual 2672.4 and BLM Manual 6840 requires surveys for and management activities to be managed to prevent a trend toward federal listing of species. FS policy addresses</p>

LEASE NOTICE	COMMENTS
<p>may be adversely affected by exploration and/or production operations, modifications to the Surface Use Plan of Operations may be required in order to protect these resources from surface disturbing activities in accordance with Section 6 of the lease terms, National Forest Management Act, Endangered Species Act, Migratory Bird Treaty Act, and 43 CFR 3101.1-2.</p> <p>If the USFS determines sensitive species may affected by fluid mineral operations, the lessee will be required to develop and implement a monitoring plan prior to and during operations. This monitoring plan will apply widely-accepted scientific methods approved by the USFS, and results of monitoring will be reported to the USFS at least annually. If unanticipated types or levels of adverse affects are observed during monitoring, the USFS will be promptly notified and conservation measures identified by the USFS will be implemented by the lessee.</p>	<p>species identified by the Regional Forester as sensitive species; Utah BLM adopts the UDWR Sensitive species. A CSU stipulation has been applied to areas known to be inhabited by sensitive species. This LN would ensure currently unknown individuals and/or populations of these species would be appropriately protected.</p>
<p>LEASE NOTICE - RAPTORS</p> <p>The lessee/operator is given notice that this lease has been identified as containing raptor habitat. Surveys will be required whenever surface disturbances and/or occupancy is proposed in association with fluid mineral exploration and development within potential raptor nesting areas. Field surveys will be conducted as determined by the U.S. Forest Service (USFS). Based on the result of the field survey, appropriate spatial and seasonal buffers will be placed on known raptor nests in accordance with 2003 Uinta National Forest Land and Resource Management Plan Guideline WL&F-11 which states:</p> <p><i>“Prohibit management activities around active raptor nest sites (for species other than northern goshawk) from nest site selection to fledging. Nesting periods and recommended buffers by species are defined in Appendix C, Recommended Raptor Buffers^{1/}. These recommended buffers may be modified on a site-specific and project-specific basis based on field observations and knowledge of local conditions, or as knowledge of raptor ecology improves.” (USFS 2003)</i></p> <p>For northern goshawk, a Forest Service Region 4 Sensitive Species, protection measures outline in the 2003 Uinta National Forest Land and Resource Management Plan Guidelines WL&F-8 and WL&F-10 and standard WL&F-11 should be adhered to (USFS 2003).</p> <p>No construction related activities will occur within these buffers if pre-construction monitoring indicates the nests are active. An exception may be permitted if a site-specific evaluation for active nests is completed prior to construction; and the USFS wildlife biologists, in coordination with the U.S. Fish and Wildlife Service (USFWS) and Utah Division of Wildlife Resources (UDWR), determine that activities may be permitted within the buffer. The USFS, will coordinate with the USFWS and UDWR and normally have a determination within 3-5 days of notification. Any construction activities authorized within a protective (spatial and seasonal) buffer for raptors may require an on-site monitor. Any indication that activities are adversely affecting the raptor and/or its' young the on-site monitor will suspend activities and contact the Authorized Officer immediately. Construction may occur within the buffers of inactive nests. Construction activities may commence once monitoring of the active nest site determines that fledglings have left the</p>	<p><u>Uinta Oil & Gas Leasing EIS Reference No. LN-13.</u></p>

LEASE NOTICE	COMMENTS
<p>nest and are no longer dependent on the nest site. Modifications to the Surface Use Plan of Operations may be required.</p> <p>^{1/} Sources for the seasonal and spatial buffers in the referenced Appendix C are: U.S. Fish and Wildlife Service, Utah Field Office. 2002. Utah Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances (January 2002 update). Information in "Best Management Practices for Raptors and their Associated Habitats in Utah (BLM 2006)", and will also be considered.</p>	
<p>LEASE NOTICE - SOLE SOURCE AQUIFER LEASE NOTICE</p> <p>This lease (or a portion thereof) is within Sole Source Aquifer Protection zone designated by the Environmental Protection Agency (EPA). BLM's rules and regulations outlined in 43 CFR §3162.4-2, §3162.5-1(a) and §3162.5-2 (d) Control of wells, Onshore Oil and Gas Orders Nos. 2 and 7, and the Gold Book have been developed to address potential impacts to ground water from the drilling and completion of oil and gas wells, including the construction and use of reserve and production pits. Specifically, §3162.5-2 (d) <i>Protection of fresh water and other minerals</i> requires that the operator shall isolate freshwater-bearing and other usable water containing 5,000 ppm or less dissolved solids and Onshore Order No. 2 increases the requirement by establishing a 10,000 ppm total dissolved solids (TDS) threshold for protection of usable water.</p> <p>During further analysis at time of APD the BLM would attach IM No. UT 2010-055, Attachment G - Utah Drinking Water Source Protection Zone COA.</p> <p>Concurrent with submittal of an application for a permit to drill (APD), or any proposed surface-disturbing activity, the lessee/operator must provide the BLM Authorized Officer (AO) protective measures, which adequately address protection of the Sole Source Aquifer and other usable ground water zones. If operator proposed measures are considered insufficient to adequately protect the water zones, the AO will incorporate additional protective measures as condition(s) of approval (COAs).</p> <p>Geophysical logs will be required in order to determine cement integrity and subsequent protection/isolation of usable ground water resources. Upon well completion, additional testing may be required to verify well bore integrity for protection of usable ground water resources. Testing results will be evaluated to determine if effective implementation of mitigation measures has been achieved.</p>	<p><u>Uinta Oil & Gas Leasing EIS Reference No. LN-14.</u> Required per BLM Instructional Memorandum 2010-055 on any lease where sole source aquifers are within the lease area.</p>
<p>LEASE NOTICE – DRINKING WATER SOURCE PROTECTION, SURFACE WATER PROTECTION ZONES 2, 3 AND 4</p> <p>This lease (or a portion thereof) is within public Drinking Water Source Protection Zones 2, 3, and/or 4. Before application for a permit to drill (APD) submittal or any proposed surface-disturbing activity, the lessee/operator must contact the BLM field office and the public water system manager to determine any zoning ordinances, best management or pollution prevention measures or physical controls that may be required within the protection zone. Drinking Water Source Protection plans are developed by the public water systems under the requirements of R309-605-7, Drinking Water Source Protection for Surface Sources (Utah Administrative Code). There may also be county ordinances in place to protect the source protection zones, as</p>	<p><u>Uinta Oil & Gas Leasing EIS Reference No. LN-16.</u> Safe Drinking Water Act and Clean Water Act compliance.</p>

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<p>required by Section 19-4-113 of the Utah Code.</p> <p>Incorporated cities and towns may also protect their drinking water sources using Section 10-8-15 of the Utah Code. Cities and town have the extraterritorial authority to enact ordinances to protect a source of drinking water ... "For 15 miles above the point from which it is taken and for a distance of 300 feet on each side of such stream..." Class I cities (greater than 100,000 population) are granted authority to protect their entire watersheds.</p> <p>Some public water sources qualify for monitoring waivers which reduce their monitoring requirements for pesticides and volatile organic chemicals (VOCs). Exploration, drilling and production activities within a Source Protection Zone could jeopardize these waivers, thus requiring increased monitoring. Contact the public water system to determine what effect your activities may have on their monitoring waivers. Please be aware of other state rules to protect surface and ground water, including Utah Division of Water Quality Rules R317 Water Quality Rules; and Rules of the Utah Division of Oil, Gas and Mining, Utah Oil and Gas Conservation Rules R649.</p> <p>During further analysis at time of APD the BLM would attach IM No. UT 2010-055, Attachment G - Utah Drinking Water Source Protection Zone COA.</p> <p>At the time of development, drilling operators will additionally conform to the BLM operational regulations and Onshore Oil and Gas Order No. 7 (which prescribes measures required for the handling of produced water to ensure the protection of surface and ground water sources) and the Surface Operating Standards and Guidelines for Oil and Gas Development, The Gold Book, Fourth Edition-Revised 2007 (which provides information and requirements for conducting environmentally responsible oil and gas operations).</p>	
<p>LEASE NOTICE – DRINKING WATER SOURCE PROTECTION, GROUND WATER PROTECTION ZONES 2 - 4</p> <p>This lease (or a portion thereof) is within Drinking Water Source Protection Zones designated by the Utah Division of Drinking Water. Drinking Water Source Protection plans are developed by the public water systems under the requirements of R309-600-7(1), Drinking Water Source Protection for Ground-Water Sources (Utah Administrative Code). BLM's rules and regulations outlined in 43 CFR §3162.4-2, §3162.5-1(a) and §3162.5-2 (d) Control of wells, Onshore Oil and Gas Orders Nos. 2 and 7, and the Gold Book have been developed to address potential impacts to ground water from the drilling and completion of oil and gas wells, including the construction and use of reserve and production pits. Specifically, §3162.5-2 (d) <i>Protection of fresh water and other minerals</i> requires that the operator shall isolate freshwater-bearing and other usable water containing 5,000 ppm or less dissolved solids and Onshore Order No. 2 increases the requirement by establishing a 10,000 ppm total dissolved solids (TDS) threshold for protection of usable water.</p> <p>During further analysis at time of APD the BLM would attach IM No. UT 2010-055, Attachment G - Utah Drinking Water Source Protection Zone COA.</p>	<p><u>Uinta Oil & Gas Leasing EIS</u> <u>Reference No. LN-17.</u> Safe Drinking Water Act and Clean Water Act compliance. Required per BLM Instructional Memorandum 2010-055. Although GWPZ 1-4 have NSO stipulation in Alternatives 2-4, this LN included in case exceptions are allowed per the NSO stipulation.</p>

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<p>Concurrent with submittal of an application for a permit to drill (APD), or any proposed surface-disturbing activity, the lessee/operator must provide the BLM Authorized Officer (AO) protective measures, which adequately address protection of the Sole Source Aquifer and other usable ground water zones. If operator proposed measures are considered insufficient to adequately protect the water zones, the AO will incorporate additional protective measures as condition(s) of approval (COAs).</p> <p>Geophysical logs will be required in order to determine cement integrity and subsequent protection/isolation of usable ground water resources. Upon well completion, additional testing may be required to verify well bore integrity for protection of usable ground water resources. Testing results will be evaluated to determine if effective implementation of mitigation measures has been achieved.</p>	
<p>LEASE NOTICE – DRINKING WATER SOURCE PROTECTION, EXISTING TRANSIENT NON-COMMUNITY WATER SYSTEMS - ZONES T2 AND T4</p> <p>This lease (or a portion thereof) is within Drinking Water Source Protection Zones designated as a transient non-community water system which does not serve 25 of the same nonresident persons per day for more than 6 months per year by the Utah Division of Drinking Water. The Transient System T2 protection zone for existing wells or springs is the area within a 250-day ground-water time of travel to the wellhead, spring or margin of the collection area, the boundary of the aquifer(s) which supplies water to the ground-water source, or the ground-water divide, whichever is closer. The Transient System T4 protection zone for existing wells or springs is the area within a 10-year ground-water time of travel to the wellhead, spring or margin of the collection area, the boundary of the aquifer(s) which supplies water to the ground-water source, or the ground-water divide, whichever is closer. Compliance with R309-600 is voluntary for existing transient non-community water systems. However, all new ground water sources (including transient non-community systems) must submit a Preliminary Evaluation Report (R309-600-13(2)) and a Drinking Water Source Protection Plan (R309-600-7(1)) which designates ground water source protection zones 1 through 4 and must comply with LN-17, LEASE NOTICE – DRINKING WATER SOURCE PROTECTION, GROUND WATER PROTECTION ZONES 2 – 4.</p> <p>BLM's rules and regulations outlined in 43 CFR §3162.4-2, §3162.5-1(a) and §3162.5-2 (d) Control of wells, Onshore Oil and Gas Orders Nos. 2 and 7, and the Gold Book have been developed to address potential impacts to ground water from the drilling and completion of oil and gas wells, including the construction and use of reserve and production pits. Specifically, §3162.5-2 (d) <i>Protection of fresh water and other minerals</i> requires that the operator shall isolate freshwater-bearing and other usable water containing 5,000 ppm or less dissolved solids and Onshore Order No. 2 increases the requirement by establishing a 10,000 ppm total dissolved solids (TDS) threshold for protection of usable water.</p> <p>During further analysis at time of APD the BLM would attach IM No. UT 2010-055, Attachment G - Utah Drinking Water Source Protection Zone COA.</p> <p>Concurrent with submittal of an application for a permit to drill (APD), or any proposed surface-disturbing activity, the lessee/operator must provide the</p>	<p><u>Uinta Oil & Gas Leasing EIS Reference No. LN-18.</u> Safe Drinking Water Act and Clean Water Act compliance. Required per BLM Instructional Memorandum 2010-055. Although Transient Zones T2 and T4 have NSO stipulation in Alternatives 2-4, this LN included in case exceptions are allowed per the NSO stipulation.</p>

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<p>BLM Authorized Officer (AO) protective measures, which adequately address protection of the Sole Source Aquifer and other usable ground water zones. If operator proposed measures are considered insufficient to adequately protect the water zones, the AO will incorporate additional protective measures as condition(s) of approval (COAs).</p> <p>Geophysical logs will be required in order to determine cement integrity and subsequent protection/isolation of usable ground water resources. Upon well completion, additional testing may be required to verify well bore integrity for protection of usable ground water resources. Testing results will be evaluated to determine if effective implementation of mitigation measures has been achieved.</p>	

* Numbers are non-sequential. Only lease notices applicable to the selected Alternative of the Uinta National Forest Oil and Gas Leasing EIS are incorporated into the Forest Plan.