

## APPENDIX 11—OIL AND GAS LEASING STIPULATIONS

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This appendix lists, by alternative, the stipulations on oil and gas leasing referenced in Chapter 2 of this draft resource management plan/draft environmental impact statement. Applicable stipulations would be appended to permits and leases issued for oil and gas resources on the public lands.

### DESCRIPTION OF SURFACE STIPULATIONS

Table A11-1 below shows resources of concern, stipulations for addressing those concerns, and criteria for considering exceptions, modifications, and waivers.

Three types of surface stipulations can be applied to oil and gas leases: (1) no surface occupancy (NSO), (2) timing limitations (TL), and (3) controlled surface use (CSU).

**No Surface Occupancy:** Areas closed to placement of surface facilities such as roads, oil and gas wells, and other facilities.

**Timing Limitations:** Areas closed to construction and developmental activities during identified time frames. Timing limitation areas may be open to maintenance activities, including associated vehicle travel, during the closed period unless otherwise specified in the stipulation.

**Controlled Surface Use:** Areas where surface uses are subject to specified controls or constraints to protect identified resource values.

### Exceptions, Modifications, and Waivers

An operator submitting a plan of operations to the Bureau of Land Management (BLM) may request an exception, modification, or waiver of a stipulation included in a lease.

**Exception:** A one-time exemption to a lease stipulation determined on a case-by-case basis.

**Modification:** A change to the provisions of a lease stipulation, either temporarily or for the term of the lease.

**Waiver:** A permanent exemption to a lease stipulation.

The resource management plan serves as the vehicle for explaining to industry and the public the conditions under which waivers, exceptions or modifications of lease stipulations may be granted. All circumstances for granting a waiver, exception, or modification must be documented in the resource management plan.

The person requesting the exception, modification or waiver is encouraged to submit information that might assist the authorized official in making a decision. The authorized officer reviews information submitted in support of the request and other pertinent information. The authorized officer may modify, waive or grant an exception to a stipulation if:

- The action is consistent with Federal laws.

- The action is consistent with the resource management plan.
- The management objectives that led the BLM to require the lease stipulation can be met without restricting operations in the manner provided for by the stipulation given changes in the condition of the surface resources involved, or given the nature, location, timing, or design of the proposed operations.
- The action is acceptable to the authorized officer based upon a review of the environmental consequences.

Criteria for considering requests for exceptions, modifications or waivers are included in Table A11-1 below. Where there are overlapping stipulations on the same land, the more stringent stipulation applies.

Table A11-1. Oil and Gas Lease Stipulations—Richfield Field Office

Resource of Concern	Applicable Area	Stipulation	Alternative					Stipulation Description
			N (Map 2-34)	A (Map 2-35)	B (Map 2-36)	C (Map 2-37)	D (Map 2-38)	
Light and Sound	Sensitive Areas	Controlled Surface Use				X	X	<p>Minimize noise and light pollution in sensitive areas (e.g. special status species habitat, developed campgrounds, and river corridors) using best available technology such as installation of multi-cylinder pumps, hospital sound reducing mufflers, and placement of exhaust systems to direct noise away from the protection area/resource. Additionally, reduce light pollution by using methods such as limiting height of light poles, timing of lighting operations (limiting lighting to times of darkness associated with drilling and work or maintenance operations), limiting wattage intensity, and constructing light shields.</p> <p><b>Exception:</b> Consider exceptions if natural barriers or viewsheds would mitigate light and noise impacts.</p> <p><b>Modification:</b> None</p> <p><b>Waiver:</b> None</p>
Light and Sound	Areas adjacent to Capitol Reef National park	No Surface Occupancy				X	X	<p>Allow no surface occupancy in areas adjacent to Capitol Reef National Park (Map 2-37 and 2-38) to minimize noise and light pollution.</p> <p><b>Exception:</b> An exception may be granted if it is determined that technology such as installation of multi-cylinder pumps, hospital sound reducing mufflers, and placement of exhaust systems to direct noise away from the national park would meet mitigation objectives.</p> <p>Additionally, there would be a requirement to reduce light pollution by using methods such as limiting height of light poles, timing of lighting operations (limiting lighting to times of darkness associated with drilling and work or maintenance operations), limiting wattage intensity, and constructing light shields.</p> <p><b>Modification:</b> None</p> <p><b>Waiver:</b> None</p>

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Resource of Concern	Applicable Area	Stipulation	Alternative					Stipulation Description
			N (Map 2-34)	A (Map 2-35)	B (Map 2-36)	C (Map 2-37)	D (Map 2-38)	
Light and Sound	Areas adjacent to Capitol Reef National Park, Canyonlands National Park, and Glen Canyon National Recreation Area (NRA)	Controlled Surface Use				X	X	<p>Minimize noise and light pollution adjacent to national park units using best available technology such as installation of multi-cylinder pumps, hospital sound reducing mufflers, and placement of exhaust systems to direct noise away from the national park. Additionally, there would be a requirement to reduce light pollution by using methods such as limiting height of light poles, timing of lighting operations (limiting lighting to times of darkness associated with drilling and work or maintenance operations), limiting wattage intensity, and constructing light shields.</p> <p>Movement of operations to mitigate sound and light impacts would be required to be at least 200 meters from the national park boundary for Visual Resource Management (VRM) Classes II, III and IV.</p> <p><b>Exception:</b> Exceptions may be granted if a determination is made that natural barriers or viewsheds would meet these mitigation objectives.</p> <p><b>Modification:</b> None</p> <p><b>Waiver:</b> None</p>
Soil and Water	Slopes 21% to 40%	Controlled Surface Use	X	X	X	X	X	<p>If surface-disturbing activities cannot be avoided on slopes 21-40%, the surface use plan of operation must address:</p> <ul style="list-style-type: none"> <li>• Erosion control strategies</li> <li>• GIS modeling</li> <li>• Proper survey and design by a certified engineer</li> </ul> <p>The erosion control strategies would mitigate impacts to soil and other resources.</p> <p><b>Exception:</b> None</p> <p><b>Modification:</b> None</p> <p><b>Waiver:</b> None</p>

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			N (Map 2-34)	A (Map 2-35)	B (Map 2-36)	C (Map 2-37)	D (Map 2-38)	
Soil and Water	Slopes greater than 50%	No Surface Occupancy	X					<p>Allow no surface occupancy on slopes greater than 50%.</p> <p><b>Exception:</b> Consider exceptions to no surface occupancy if the project would not cause undue or unnecessary degradation to surface resources. Additionally, require the operator to submit a plan prior to commencing operations that addresses:</p> <ul style="list-style-type: none"> <li>• Erosion control strategies</li> <li>• GIS modeling</li> <li>• Proper survey and design by a certified engineer.</li> </ul> <p><b>Modification:</b> Modifications may be granted if a more detailed analysis finds that surface disturbance activities could be allowed on slopes greater than 50% without accelerating erosion.</p> <p><b>Waiver:</b> None</p>
Soil and Water	Slopes greater than 40%	No Surface Occupancy		X	X	X	X	<p>Allow no surface occupancy on slopes greater than 40%.</p> <p><b>Exception:</b> Consider exceptions to no surface occupancy if the project would not cause undue or unnecessary degradation to surface resources. Additionally, require the operator to submit a plan prior to commencing operations that addresses:</p> <ul style="list-style-type: none"> <li>• Erosion control strategies</li> <li>• GIS modeling</li> <li>• Proper survey and design by a certified engineer.</li> </ul> <p><b>Modification:</b> Modifications may be granted if a more detailed analysis finds that surface disturbance activities could be allowed on slopes greater than 40% without accelerating erosion.</p> <p><b>Waiver:</b> None</p>
Soil and Water	Soils identified by NRCS as having high potential for wind erosion through research	Controlled Surface Use	X	X	X	X	X	<p>If surface disturbing activities cannot be avoided on areas identified as having high potential for wind erosion, require a plan of operation that addresses erosion control strategies or mitigation measures, such as signing along roadways.</p>

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			N (Map 2-34)	A (Map 2-35)	B (Map 2-36)	C (Map 2-37)	D (Map 2-38)	
	studies or monitoring.							<p><b>Exception:</b> None</p> <p><b>Modification:</b> Consider modification if site-specific environmental analysis shows that alternatives would cause undue or unnecessary degradation to surface resources and impacts from wind erosion would not affect long-term soil productivity, would not impact air quality in nearby Class I airsheds, nor pose safety hazards to recreationists or motorists.</p> <p><b>Waiver:</b> None</p>
Soil and Water	Riparian and wetland areas	Controlled Surface Use	X					<p>Prohibit oil and gas exploration and development activities within 500 feet of live water.</p> <p><b>Exception:</b> Consider exceptions if: (1) there are no practical alternatives (2) impacts can be fully mitigated, and (3) the action is designed to enhance the riparian resources.</p> <p><b>Modification:</b> None</p> <p><b>Waiver:</b> None</p>
Soil and Water	Riparian and wetland areas	Controlled Surface Use		X	X			<p>Maintain buffer zones of no surface disturbance and/or occupancy around natural springs. Base the size of the buffer on hydrological, riparian, and other factors necessary to protect the water quality of the springs. If these factors cannot be determined, maintain a 330-foot buffer zone from outer edge.</p> <p><b>Exception:</b> Consider exceptions if it can be shown that: (1) there are no practical alternatives to the disturbance, (2) all long-term impacts can be fully mitigated, and (3) the activity will benefit and enhance the riparian area. Consider compensatory mitigation where surface disturbance cannot be avoided within riparian wetland habitats on a site-specific basis.</p> <p><b>Modification:</b> None</p> <p><b>Waiver:</b> None</p>
Soil and Water	Riparian and wetland areas	Controlled Surface Use				X	X	<p>Maintain buffer zones of no surface disturbance and/or occupancy around natural springs. Base the size of the buffer on hydrological, riparian, and other factors necessary to protect the water quality of the springs. If these factors cannot be</p>

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Resource of Concern	Applicable Area	Stipulation	Alternative					Stipulation Description
			N (Map 2-34)	A (Map 2-35)	B (Map 2-36)	C (Map 2-37)	D (Map 2-38)	
								<p>determined, maintain a 660-foot buffer zone from outer edge.</p> <p><b>Exception:</b> Consider exceptions if it can be shown that: (1) there are no practical alternatives to the disturbance, (2) all long-term impacts can be fully mitigated, and (3) the activity will benefit and enhance the riparian area. Consider compensatory mitigation where surface disturbance cannot be avoided within riparian wetland habitats on a site-specific basis.</p> <p><b>Modification:</b> None</p> <p><b>Waiver:</b> None</p>
Soil and Water	Wetland soils or soils identified as having hydric soil properties	No Surface Occupancy	X	X	X	X	X	<p>Allow no surface occupancy on wetland soils or soils identified as having hydric soil properties.</p> <p><b>Exception:</b> Consider exceptions to no surface occupancy if a site-specific environmental analysis determines that other placement alternatives would cause undue or unnecessary degradation to resources. Additionally, require the operator to submit a plan prior to commencing operations that addresses:</p> <ul style="list-style-type: none"> <li>• Erosion control strategies</li> <li>• Mitigation to protect surface from rutting, compaction, and displacement, and disruption of surface and subsurface hydrologic function</li> <li>• Mitigation or restoration measures to restore hydrologic function to site</li> <li>• Proper survey and design by a certified engineer.</li> </ul> <p><b>Modification:</b> None</p> <p><b>Waiver:</b> None</p>
Special Status Species	Bald Eagle Nesting and Winter Roosting Habitat	Timing and Controlled Surface Use Notices	X	X	X	X	X	<p>Implement measures outlined in Attachment A, <i>Lease Notice for Bald Eagles</i></p> <p><b>Exception:</b> None</p> <p><b>Modification:</b> None</p> <p><b>Waiver:</b> None</p>

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			N (Map 2-34)	A (Map 2-35)	B (Map 2-36)	C (Map 2-37)	D (Map 2-38)	
Special Status Species	Mexican Spotted Owl Designated Critical Habitat	Timing and Controlled Surface Use Notices	X	X	X	X	X	Implement measures outlined in Attachment B, <i>Lease Notice for Mexican Spotted Owls</i> <b>Exception:</b> None <b>Modification:</b> None <b>Waiver:</b> None
Special Status Species	Southwestern Willow Flycatcher Habitat	Timing and Controlled Surface Use Notices	X	X	X	X	X	Implement measures outlined in Attachment C, <i>Lease Notice Southwestern Willow Flycatcher Conservation Measures</i> <b>Exception:</b> None <b>Modification:</b> None <b>Waiver:</b> None
Special Status Species	Colorado River Fish Critical Habitat	Timing and Controlled Surface Use Notices	X	X	X	X	X	Implement measures outlined in Attachment D, <i>Lease Notice for Colorado River Fish</i> <b>Exception:</b> None <b>Modification:</b> None <b>Waiver:</b> None
Special Status Species	Historic or Occupied Utah Prairie Dog Habitat	Controlled Surface Use Notices	X	X	X	X	X	Implement measures outlined in Attachment E, <i>Lease Notice for Utah Prairie Dog</i> <b>Exception:</b> None <b>Modification:</b> None <b>Waiver:</b> None
Special Status Species	Suitable Habitat for Federally-listed plant species	Controlled Surface Use Notices	X	X	X	X	X	Implement measures outlined in Attachment F, <i>Lease Notice for Listed Plant Species</i> <b>Exception:</b> None <b>Modification:</b> None <b>Waiver:</b> None

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			N (Map 2-34)	A (Map 2-35)	B (Map 2-36)	C (Map 2-37)	D (Map 2-38)	
Special Status Species	Sage Grouse Leks	Timing and Controlled Surface Use	X					<p>Prohibit surface disturbing activities near sage grouse leks from March 1 through July 15, for protection of species sensitivity during lekking activities.</p> <p><b>Exception:</b> Consider exceptions if the proposed activity would not impair the function or utility of the site for current or subsequent reproductive display, including daytime loafing/staging activities.</p> <p><b>Modification:</b> Consider modifying the controlled surface use stipulation or substituting with a timing limitation if the CSU area is nonessential to site utility or function, or that the proposed action could be conditioned so as not to impair the function or utility of the site for current or subsequent reproductive display, including daytime loafing/staging activities.</p> <p><b>Waiver:</b> Consider waiving the stipulation if, in cooperation with the State of Utah Division of Wildlife Resources, it is determined that the site has been permanently abandoned or unoccupied for a minimum of 5 years; or site conditions have changed such that there is no reasonable likelihood of site occupation for a subsequent minimum period of 10 years.</p>
Special Status Species	Sage Grouse Leks	Timing and Controlled Surface Use		X				<p>Prohibit surface disturbing activities within one-quarter mile of sage grouse leks from March 15 through June 1 for protection of species sensitivity during lekking activities. Any surface disturbing activity conducted outside this time frame may not result in an above ground structure within one-quarter mile of sage grouse leks that is in place from March 15 through June 1.</p> <p><b>Exception:</b> Consider exceptions if the proposed activity would not impair the function or utility of the site for current or subsequent reproductive display, including daytime loafing/staging activities.</p> <p><b>Modification:</b> Consider modifying the controlled</p>

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								<p>surface use stipulation or substituting with a timing limitation if the CSU area is nonessential to site utility or function, or that the proposed action could be conditioned so as not to impair the function or utility of the site for current or subsequent reproductive display, including daytime loafing/staging activities.</p> <p><b>Waiver:</b> Consider waiving the stipulation if, in cooperation with the State of Utah Division of Wildlife Resources, it is determined that the site has been permanently abandoned or unoccupied for a minimum of 5 years; or site conditions have changed such that there is no reasonable likelihood of site occupation for a subsequent minimum period of 10 years.</p>
Special Status Species	Sage Grouse Leks	Timing and Controlled Surface Use			X			<p>Prohibit surface disturbing activities within one-half mile of sage grouse leks from March 15 through June 1 for protection of species sensitivity during lekking activities. Any surface disturbing activity conducted outside this time frame may not result in an above ground structure within one-half mile of sage grouse leks that is in place from March 15 through June 1.</p> <p><b>Exception:</b> Consider exceptions if the proposed activity would not impair the function or utility of the site for current or subsequent reproductive display, including daytime loafing/staging activities.</p> <p><b>Modification:</b> Consider modifying the controlled surface use stipulation or substituting with a timing limitation if the CSU area is nonessential to site utility or function, or that the proposed action could be conditioned so as not to impair the function or utility of the site for current or subsequent reproductive display, including daytime loafing/staging activities.</p> <p><b>Waiver:</b> Consider waiving the stipulation if, in cooperation with the State of Utah Division of Wildlife Resources, it is determined that the site has been permanently abandoned or unoccupied</p>

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Resource of Concern	Applicable Area	Stipulation	Alternative					Stipulation Description
			N (Map 2-34)	A (Map 2-35)	B (Map 2-36)	C (Map 2-37)	D (Map 2-38)	
								for a minimum of 5 years; or site conditions have changed such that there is no reasonable likelihood of site occupation for a subsequent minimum period of 10 years.
Special Status Species	Sage Grouse Leks	Timing and Controlled Surface Use				X	X	<p>Prohibit surface disturbing activities within two miles of sage grouse leks from March 15 through June 1 for protection of species sensitivity during lekking activities. Any surface disturbing activity conducted outside this time frame may not result in an above ground structure within two miles of sage grouse leks that is in place from March 15 through June 1.</p> <p><b>Exception:</b> Consider exceptions if the proposed activity would not impair the function or utility of the site for current or subsequent reproductive display, including daytime loafing/staging activities.</p> <p><b>Modification:</b> Consider modifying the controlled surface use stipulation or substituting with a timing limitation if the CSU area is nonessential to site utility or function, or that the proposed action could be conditioned so as not to impair the function or utility of the site for current or subsequent reproductive display, including daytime loafing/staging activities.</p> <p><b>Waiver:</b> Consider waiving the stipulation if, in cooperation with the State of Utah Division of Wildlife Resources, it is determined that the site has been permanently abandoned or unoccupied for a minimum of 5 years; or site conditions have changed such that there is no reasonable likelihood of site occupation for subsequent minimum period of 10 years.</p>

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			N (Map 2-34)	A (Map 2-35)	B (Map 2-36)	C (Map 2-37)	D (Map 2-38)	
Special Status Species	Sage Grouse Brooding Habitat	Timing Limitation	X					<p>Prohibit surface disturbing activities within sage grouse brooding habitat from April 1 through June 15 for protection of brooding and nesting activities.</p> <p><b>Exception:</b> Consider exceptions if consultation with the Utah Division of Wildlife Resources indicates that the proposed action can be conditioned so as not to affect nest attendance, egg or chick survival, or nesting success. Actions designed to enhance the long-term utility or availability of suitable sage grouse habitat may be exempted from this timing limitation.</p> <p><b>Modification:</b> Consider modifying the size and shape of the timing limitation area if consultation with the Utah Division of Wildlife Resources indicates that the actual habitat suitability for nesting is greater or less than the identified area. Consider modifying timing limitations based on studies documenting actual use.</p> <p><b>Waiver:</b> Consider waiving the stipulation if the Utah Division of Wildlife Resources determines that the described lands are incapable of serving the long-term requirements of sage grouse nesting habitat and that these ranges no longer warrant consideration as components of sage grouse habitat.</p>
Special Status Species	Sage Grouse Brooding Habitat	Timing Limitation			X			<p>Prohibit long-term surface disturbing activities within sage grouse brooding/nesting habitat from April 1 through July 15 for protection of brooding and nesting activities, unless the activity is completed to improve sage grouse brooding habitat.</p> <p><b>Exception:</b> Consider exceptions if an environmental analysis and consultation with the Utah Division of Wildlife Resources indicates that the proposed action can be conditioned so as not to affect nest attendance, egg or chick survival, or nesting success. Actions designed to enhance the long-term utility or availability of suitable sage grouse habitat may be exempted</p>

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								<p>from this timing limitation.</p> <p><b>Modification:</b> Consider modifying the size and shape of the timing limitation area if consultation with the Utah Division of Wildlife Resources indicates that the actual habitat suitability for nesting is greater or less than the identified area. Consider modifying timing limitations based on studies documenting actual use.</p> <p><b>Waiver:</b> Consider waiving the stipulation if the Utah Division of Wildlife Resources determines that the described lands are incapable of serving the long-term requirements of sage grouse nesting habitat and that these ranges no longer warrant consideration as components of sage grouse habitat.</p>
Special Status Species	Sage Grouse Brooding Habitat	Timing Limitation				X	X	<p>Prohibit long-term surface disturbing activities within sage grouse brooding/nesting habitat from April 1 through July 15 for protection of brooding and nesting activities.</p> <p><b>Exception:</b> Consider exceptions if an environmental analysis and consultation with the Utah Division of Wildlife Resources indicates that the proposed action can be conditioned so as not to affect nest attendance, egg or chick survival, or nesting success. Actions designed to enhance the long-term utility or availability of suitable sage grouse habitat may be exempted from this timing limitation.</p> <p><b>Modification:</b> Consider modifying the size and shape of the timing limitation area if consultation with the Utah Division of Wildlife Resources indicates that the actual habitat suitability for nesting is greater or less than the identified area. Consider modifying timing limitations based on studies documenting actual use.</p> <p><b>Waiver:</b> Consider waiving the stipulation if the Utah Division of Wildlife Resources determines that the described lands are incapable of serving the long-term requirements of sage grouse nesting habitat and that these ranges no longer</p>

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			N (Map 2-34)	A (Map 2-35)	B (Map 2-36)	C (Map 2-37)	D (Map 2-38)	
								warrant consideration as components of sage grouse habitat.
Fish and Wildlife	Crucial Bison Habitat	Timing Limitation	X					Restrict oil and gas exploration and development activities in crucial bison habit from Dec. 1 through April 15. <b>Exception:</b> Consider exception if bison are not present or the lessee/operator can demonstrate that adverse impacts can be mitigated. <b>Modification:</b> None <b>Waiver:</b> None
Fish and Wildlife	Crucial Bison Habitat	Timing Limitation			X	X	X	Restrict oil and gas exploration and development activities in crucial bison habit from Nov. 1 through May 15. <b>Exception:</b> Consider exception if bison are not present or the lessee/operator can demonstrate that adverse impacts can be mitigated. <b>Modification:</b> None <b>Waiver:</b> None
Fish and Wildlife	Crucial and High Value Mule Deer and Elk Habitat	Timing Limitation	X					Restrict oil and gas exploration and development in crucial and high value mule deer and elk habitats from Dec. 15 through May 15 for protection of winter habitats and species sensitivity during fawning season. <b>Exception:</b> Consider exception if deer and/or elk are not present or if the lessee/operator can demonstrate that adverse impacts can be mitigated. <b>Modification:</b> None <b>Waiver:</b> None
Fish and Wildlife	Crucial and High Value Mule Deer and Elk Habitat	Timing Limitation			X	X	X	Restrict surface disturbing activities in crucial and high value mule deer and elk habitats from Dec. 15 through April 15 for protection of winter habitats. <b>Exception:</b> None <b>Modification:</b> None <b>Waiver:</b> None

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Fish and Wildlife	Crucial Pronghorn Habitat	Timing Limitation	X					Restrict oil and gas exploration and development activities in crucial pronghorn habitat from Dec. 1 through April 30 for protection of species sensitivity during kidding season. <b>Exception:</b> Consider exception if pronghorn are not present, or the lessee/operator demonstrates that adverse impacts can be mitigated. <b>Modification:</b> None <b>Waiver:</b> None
Fish and Wildlife	Crucial Pronghorn Habitat	Timing Limitation			X	X	X	Restrict surface disturbing activities in crucial pronghorn antelope habitat from May 15 through June 15 for protection of species sensitivity during fawning season. <b>Exception:</b> Consider exception if pronghorn are not present, or the lessee/operator demonstrates that adverse impacts can be mitigated. <b>Modification:</b> None <b>Waiver:</b> None
Fish and Wildlife	Crucial Desert Bighorn Sheep Habitat	Timing Limitation			X	X	X	Prohibit surface disturbing activities in crucial desert bighorn sheep habitat from April 15 through June 15 for protection of species sensitivity during lambing season. <b>Exception:</b> Consider exception if sheep are not present, or the lessee/operator demonstrates that adverse impacts can be mitigated. <b>Modification:</b> None <b>Waiver:</b> None
Cultural Resources	Bull Creek National Historic District	No Surface Occupancy	X	X	X	X	X	Allow no surface occupancy within the Bull Creek National Historic District. <b>Exception:</b> None <b>Modification:</b> None <b>Waiver:</b> None
Cultural Resources	Fish Creek Cove	No Surface Occupancy	X					Lease with no surface occupancy within the Fish Creek Cove cultural resource area. <b>Exception:</b> None <b>Modification:</b> None <b>Waiver:</b> None
Scenic and Recreational Resources	Dirty Devil SRMA	No Surface Occupancy			X	X	X	Lease with no surface occupancy VRM Class II areas and canyon rims within viewshed of canyons (approximately one-quarter mile) to

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			N (Map 2-34)	A (Map 2-35)	B (Map 2-36)	C (Map 2-37)	D (Map 2-38)	
								protect scenic values and opportunities for primitive and semi-primitive recreation. <b>Exception:</b> Consider exceptions if oil and gas exploration and development would not impair identified scenic and primitive or semi-primitive recreational resources. <b>Modification:</b> None <b>Waiver:</b> None.
Scenic and Recreational Resources	Lands Adjacent to Capitol Reef National Park	No Surface Occupancy				X	X	Lease with no surface occupancy identified lands east of Capitol Reef National Park (see Maps 2-37 and 2-38) to protect scenic values and opportunities for primitive and semi-primitive recreation. <b>Exception:</b> Consider exceptions if oil and gas exploration and development would not impair identified scenic and primitive or semi-primitive recreational resources. <b>Modification:</b> None <b>Waiver:</b> None.
Scenic Resources	Other Scenic Lands	No Surface Occupancy	X		X	X	X	Lease with no surface occupancy other scenic lands shown as NSO on Maps 2-34, 2-36, 2-37 and 2-38 to protect scenic values <b>Exception:</b> Consider exceptions if oil and gas exploration and development would not impair scenic values. <b>Modification:</b> None <b>Waiver:</b> None.
Lands	<ul style="list-style-type: none"> <li>• Cemeteries</li> <li>• Culinary water sources</li> <li>• Landfills—existing and closed</li> <li>• Lands managed under Recreation and Public Purpose Act leases</li> <li>• Sites listed on the National</li> </ul>	No Surface Occupancy	X	X	X	X	X	Lease with no surface occupancy. <b>Exception:</b> None <b>Modification:</b> None <b>Waiver:</b> None

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			N (Map 2-34)	A (Map 2-35)	B (Map 2-36)	C (Map 2-37)	D (Map 2-38)	
	Register of Historic Places <ul style="list-style-type: none"> <li>• Incorporated municipalities</li> <li>• Developed recreation sites</li> <li>• BLM administrative sites</li> </ul>							
Special Designations	Fremont Gorge Suitable Wild River	No Surface Occupancy			X			Lease with no surface occupancy the Fremont Gorge suitable wild river corridor to protect outstandingly remarkable scenic values. <b>Exception:</b> None <b>Modification:</b> None <b>Waiver:</b> None
Special Designations (Relict Vegetation)	North Caineville Mesa ACEC (part of Badlands ACEC in Alternative C)	No Surface Occupancy	X		X			Allow no surface occupancy within North Caineville Mesa ACEC to protect relict vegetation. <b>Exception:</b> None <b>Modification:</b> None <b>Waiver:</b> None
Special Designations (Relict Vegetation)	South Caineville Mesa ACEC (part of Badlands ACEC in Alternative C)	No Surface Occupancy	X					Allow no surface occupancy within South Caineville Mesa ACEC to protect relict vegetation. <b>Exception:</b> None <b>Modification:</b> None <b>Waiver:</b> None
Special Designations (Natural Systems/ Processes)	Gilbert Badlands ACEC (part of Badlands ACEC in Alternative C)	No Surface Occupancy	X					Allow no surface occupancy within Gilbert Badlands ACEC to protect relict vegetation. <b>Exception:</b> None <b>Modification:</b> None <b>Waiver:</b> None

Table A11-1. Oil and Gas Lease Stipulations—Richfield Field Office

Resource of Concern	Applicable Area	Stipulation	Alternative					Stipulation Description
			N (Map 2-34)	A (Map 2-35)	B (Map 2-36)	C (Map 2-37)	D (Map 2-38)	
Special Designations (Scenic Resources)	Dirty Devil/North Wash ACEC	No Surface Occupancy				X	X	Lease VRM Class II areas within the ACEC with no surface occupancy stipulation to protect scenic values. <b>Exception:</b> Consider exceptions on a case-by-case basis if oil and gas exploration and development would not impair identified scenic values. <b>Modification:</b> None <b>Waiver:</b> None.
Special Designations (Scenic Resources)	Fremont Gorge/Cockscomb ACEC	No Surface Occupancy				X	X	Lease VRM Class II areas within the ACEC with no surface occupancy stipulation to protect scenic values. <b>Exception:</b> Consider exceptions on a case-by-case basis if oil and gas exploration and development would not impair identified scenic values. <b>Modification:</b> None <b>Waiver:</b> None.
Special Designations (Scenic Resources)	Horseshoe Canyon ACEC	No Surface Occupancy				X	X	Lease VRM Class II areas within the ACEC with no surface occupancy stipulation to protect scenic values. <b>Exception:</b> Consider exceptions if oil and gas exploration and development would not impair identified scenic values. <b>Modification:</b> None <b>Waiver:</b> None.
Special Designations (Scenic Resources)	Little Rockies ACEC	No Surface Occupancy				X	X	Lease VRM Class II areas within the ACEC with no surface occupancy stipulation to protect scenic values. <b>Exception:</b> Consider exceptions if oil and gas exploration and development would not impair identified scenic values. <b>Modification:</b> None <b>Waiver:</b> None.

Table A11-1. Oil and Gas Lease Stipulations—Richfield Field Office

Resource of Concern	Applicable Area	Stipulation	Alternative					Stipulation Description
			N (Map 2-34)	A (Map 2-35)	B (Map 2-36)	C (Map 2-37)	D (Map 2-38)	
Special Designations (Natural Systems and Special Status Species)	Rainbow Hills ACEC	No Surface Occupancy				X	X	Lease ACEC with no surface occupancy stipulation to protect special status and endemic plants and the naturally functioning system from major human disturbances. <b>Exception:</b> None <b>Modification:</b> None <b>Waiver:</b> None

## Attachment A—Lease Notice for Bald Eagle

### Utah's Threatened & Endangered Species Notices

#### Lease Notice – Bald Eagle

The Lessee/Operator is given notice that the lands in this parcel contains nesting/winter roost habitat for the bald eagle, a Federally listed species. Avoidance or use restrictions may be placed on portions of the lease. Application of appropriate measures will depend on whether the action is temporary or permanent, and whether it occurs within or outside the bald eagle breeding or roosting season. A temporary action is completed prior to the following breeding or roosting season leaving no permanent structures and resulting in no permanent habitat loss. A permanent action continues for more than one breeding or roosting season and/or causes a loss of eagle habitat or displaces eagles through disturbances (e.g., creation of a permanent structure). 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.

Current avoidance and minimization measures include the following:

1. 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.
2. Lease activities 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.
3. Water production will be managed to ensure maintenance or enhancement of riparian habitat.
4. Temporary activities within 1.0 mile of nest sites will not occur during the breeding season of January 1 to August 31, unless the area has been surveyed according to protocol and determined to be unoccupied.
5. Temporary activities within 0.5 miles of winter roost areas, e.g., cottonwood galleries, will not occur during the winter roost season of November 1 to March 31, unless the area has been surveyed according to protocol and determined to be unoccupied.
6. No permanent infrastructure will be placed within 1.0 mile of nest sites.
7. No permanent infrastructure will be placed within 0.5 miles of winter roost areas.
8. Remove big game carrion to 100 feet from on lease roadways occurring within bald eagle foraging range.
9. Avoid loss or disturbance to large cottonwood gallery riparian habitats.
10. Where technically and economically feasible, use directional drilling or multiple wells from the same pad to reduce surface disturbance and eliminate drilling in suitable habitat. Utilize directional drilling to avoid direct impacts to large cottonwood gallery riparian habitats. Ensure that such directional drilling does not intercept or degrade alluvial aquifers.
11. All areas of surface disturbance within riparian areas and/or adjacent uplands should be re-vegetated with native species.

Additional measures may also be employed to avoid or minimize effects to the species between the lease sale stage and lease development stage. These additional measures will be developed and implemented in consultation with the U.S. Fish and Wildlife Service to ensure continued compliance with the Endangered Species Act.

## Attachment B—Lease Notice for Mexican Spotted Owl

### Utah's Threatened & Endangered Species Notices

#### Lease Notice – Mexican Spotted Owl

The Lessee/Operator is given notice that the lands in this lease contain suitable habitat for Mexican spotted owl, a Federally listed species. **Insert the following if lease contains Designated Critical Habitat:** *[The Lessee/Operator is given notice that the lands in this lease contain Designated Critical Habitat for the Mexican spotted owl, a Federally listed species. Critical habitat was designated for the Mexican spotted owl on August 31, 2004 (69 FR 53181-53298).]* Avoidance or use restrictions may be placed on portions of the lease. Application of appropriate measures will depend on whether the action is temporary or permanent, and whether it occurs within or outside the owl nesting season. A temporary action is completed prior to the following breeding season leaving no permanent structures and resulting in no permanent habitat loss. A permanent action continues for more than one breeding season and/or causes a loss of owl habitat or displaces owls through disturbances (e.g., creation of a permanent structure). 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.

Current avoidance and minimization measures include the following:

1. 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).
2. Assess habitat suitability for both nesting and foraging using accepted habitat models in conjunction with field reviews. Apply the conservation measures below if project activities occur within 0.5 mile of suitable owl habitat. Determine potential effects of actions to owls and their habitat.
  - a. Document type of activity, acreage and location of direct habitat impacts, type and extent of indirect impacts relative to location of suitable owl habitat.
  - b. Document if action is temporary or permanent.
3. Lease activities 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.
4. Water production will be managed to ensure maintenance or enhancement of riparian habitat.
5. Where technically and economically feasible, use directional drilling or multiple wells from the same pad to reduce surface disturbance and eliminate drilling in canyon habitat suitable for Mexican spotted owl nesting.
6. For all temporary actions that may impact owls or suitable habitat:
  - a. If the action occurs entirely outside of the owl breeding season (March 1 – August 31), and leaves no permanent structure or permanent habitat disturbance, action can proceed without an occupancy survey.
  - b. If action will occur during a breeding season, survey for owls prior to commencing activity. If owls are found, activity must be delayed until outside of the breeding season.
  - c. Rehabilitate access routes created by the project through such means as raking out scars, revegetation, gating access points, etc.
7. For all permanent actions that may impact owls or suitable habitat:
  - a. Survey two consecutive years for owls according to accepted protocol prior to commencing activities.
  - b. If owls are found, no actions will occur within 0.5 mile of identified nest site. If nest site is unknown, no activity will occur within the designated Protected Activity Center (PAC).
  - c. Avoid drilling and permanent structures within 0.5 mi of suitable habitat unless surveyed and not occupied.
  - d. Reduce noise emissions (e.g., use hospital-grade mufflers) to 45 dBA at 0.5 mile from suitable habitat, including canyon rims. Placement of permanent noise-generating facilities should be determined by a noise analysis to ensure noise does not encroach upon a 0.5 mile buffer for suitable habitat, including canyon rims.
  - e. Limit disturbances to and within suitable habitat by staying on approved routes.
  - f. Limit new access routes created by the project.

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.

## Attachment C—Lease Notice for Southwestern Willow Flycatcher

### Utah's Threatened & Endangered Species Notices

#### Lease Notice – Southwestern Willow Flycatcher

The Lessee/Operator is given notice that the lands in this parcel contains riparian habitat that falls within the range for southwestern willow flycatcher, a Federally listed species. Avoidance or use restrictions may be placed on portions of the lease. Application of appropriate measures will depend on whether the action is temporary or permanent, and whether it occurs within or outside the nesting season. A temporary action is completed prior to the following breeding season leaving no permanent structures and resulting in no permanent habitat loss. A permanent action continues for more than one breeding season and/or causes a loss of habitat or displaces flycatchers through disturbances (e.g., creation of a permanent structure). 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.

Current avoidance and minimization measures include the following:

1. 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.
2. Lease activities 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.
3. Water production will be managed to ensure maintenance or enhancement of riparian habitat.
4. Where technically and economically feasible, use directional drilling or multiple wells from the same pad to reduce surface disturbance and eliminate drilling in suitable riparian habitat. Ensure that such directional drilling does not intercept or degrade alluvial aquifers.
5. Drilling activities will maintain a 300 ft. buffer from suitable riparian habitat year long.
6. Drilling activities within 0.25 mile of occupied breeding habitat will not occur during the breeding season of May 1 to August 15.
7. Ensure that water extraction or disposal practices do not result in change of hydrologic regime that would result in loss or degradation of riparian habitat.
8. Revegetate with native species all areas of surface disturbance within riparian areas and/or adjacent uplands.

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.

## Attachment D—Lease Notice for Colorado River Fish

### Utah's Threatened & Endangered Species Notices

#### Lease Notice – Endangered Fish of the Upper Colorado River Drainage Basin

The Lessee/Operator is given notice that the lands in this parcel contain Critical Habitat for the Colorado River fish (bonytail chub, humpback chub, Colorado pike minnow, and razorback sucker) listed as endangered under the Endangered Species Act, or these parcels have watersheds that are tributary to designated habitat. Critical habitat was designated for the four endangered Colorado River fishes on March 21, 1994 (59 FR 13374-13400). Designated critical habitat for all the endangered fishes includes those portions of the 100-year floodplain that contain primary constituent elements necessary for survival of the species. Avoidance or use restrictions may be placed on portions of the lease. 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.

Current avoidance and minimization measures include the following:

1. 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).
2. Lease activities 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.
3. Water production will be managed to ensure maintenance or enhancement of riparian habitat.
4. Avoid loss or disturbance of riparian habitats.
5. Where technically and economically feasible, use directional drilling or multiple wells from the same pad to reduce surface disturbance and eliminate drilling in suitable riparian habitat. Ensure that such directional drilling does not intercept or degrade alluvial aquifers.
6. Conduct watershed analysis for leases in designated critical habitat and overlapping major tributaries in order to determine toxicity risk from permanent facilities.
7. Implement the Utah Oil and Gas Pipeline Crossing Guidance (from BLM National Science and Technology Center).
8. Drilling will not occur within 100-year floodplains of rivers or tributaries to rivers that contain listed fish species or critical habitat.
9. In areas adjacent to 100-year flood plains, particularly in systems prone to flash floods, analyze the risk for flash floods to impact facilities, and use closed loop drilling, and pipeline burial or suspension according to the Utah Oil and Gas Pipeline Crossing Guidance, to minimize the potential for equipment damage and resulting leaks or spills.

Water depletions from *any* 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.

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.

## Attachment E—Lease Notice for Utah Prairie Dog

### Utah's Threatened & Endangered Species Notices

#### Lease Notice – Utah Prairie Dog

The lessee/operator is given notice that lands in this lease may contain historic and/or occupied Utah prairie dog habitat, a threatened species under the Endangered Species Act. Avoidance or use restrictions may be placed on portions of the lease. Application of appropriate measures will depend on whether the action is temporary or permanent, and whether it occurs when prairie dogs are active or hibernating. A temporary action is completed prior to the following active season leaving no permanent structures and resulting in no permanent habitat loss. A permanent action continues for more than one activity/hibernation season and/or causes a loss of Utah prairie dog habitat or displaces prairie dogs through disturbances (e.g., creation of a permanent structure). 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.

Current avoidance and minimization measures include the following:

1. 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).
2. Lease activities 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.
3. Where technically and economically feasible, use directional drilling or multiple wells from the same pad to reduce surface disturbance and eliminate drilling in prairie dog habitat.
4. Surface occupancy or other surface disturbing activity will be avoided within 0.5 mile of active prairie dog colonies.
5. Permanent surface disturbance or facilities will be avoided within 0.5 mile of potentially suitable, unoccupied prairie dog habitat, identified and mapped by Utah Division of Wildlife Resources since 1976.
6. The lessee/operator should consider if fencing infrastructure on well pad, e.g., drill pads, tank batteries, and compressors, would be needed to protect equipment from burrowing activities. In addition, the operator should consider if future surface disturbing activities would be required at the site.
7. Within occupied habitat, set a 25 mph speed limit on operator-created and maintained roads.
8. Limit disturbances to and within suitable habitat by staying on designated routes.
9. Limit new access routes created by the project.

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.

## Attachment F—Lease Notice for Listed Plant Species

### Utah's Threatened & Endangered Species Notices

#### Lease Notice – Listed Plant Species

The Lessee/Operator is given notice that the lands in this parcel contain suitable habitat for Federally listed plant species under the Endangered Species Act. The following avoidance and minimization measures have been developed to facilitate review and analysis of any submitted permits under the authority of this lease

1. Site inventories:
  - a. Must be conducted to determine habitat suitability,
  - b. Are required in known or potential habitat for all areas proposed for surface disturbance prior to initiation of project activities, at a time when the plant can be detected, and during appropriate flowering periods,
  - c. Documentation should include, but not be limited to individual plant locations and suitable habitat distributions, and
  - d. All surveys must be conducted by qualified individuals.
2. Lease activities 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.
3. Project activities must be designed to avoid direct disturbance to populations and to individual plants:
  - a. Designs will avoid concentrating water flows or sediments into plant occupied habitat.
  - b. Construction will occur downslope of plants and populations where feasible; if well pads and roads must be sited upslope, buffers of 100 feet minimum between surface disturbances and plants and populations will be incorporated.
  - c. Where populations occur within 200 ft. of well pads, establish a buffer or fence between the individuals or groups of individuals and the well pads during and post-construction.
  - d. Areas for avoidance will be visually identifiable in the field, e.g., flagging, temporary fencing, rebar, etc.
  - e. For surface pipelines, use a 10 foot buffer from any plant locations:
    - i. If on a slope, use stabilizing construction techniques to ensure the pipelines don't move towards the population.
4. For riparian/wetland-associated species, e.g. Ute ladies'-tresses, avoid loss or disturbance of riparian habitats:
  - a. Ensure that water extraction or disposal practices do not result in change of hydrologic regime.
5. Limit disturbances to and within suitable habitat by staying on designated routes.
6. Limit new access routes created by the project.
7. Place signing to limit OHV travel in sensitive areas.
8. Implement dust abatement practices near occupied plant habitat.
9. All disturbed areas will be revegetated with native species comprised of species indigenous to the area.
10. Post-construction monitoring for invasive species will be required.
11. Where technically and economically feasible, use directional drilling or multiple wells from the same pad to reduce surface disturbance and eliminate drilling in plant habitat. Ensure that such directional drilling does not intercept or degrade alluvial aquifers.
12. Lease activities 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.

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.