

APPENDIX C.

STIPULATIONS AND ENVIRONMENTAL BEST PRACTICES APPLICABLE TO OIL AND GAS LEASING AND OTHER SURFACE- DISTURBING ACTIVITIES

C.1 STIPULATIONS APPLICABLE TO OIL AND GAS LEASING AND OTHER SURFACE-DISTURBING ACTIVITIES

This appendix lists by alternative the stipulations for oil and gas leasing referred to throughout this Proposed RMP and Final EIS. These stipulations would also apply, where appropriate and practical, to other surface-disturbing activities (and occupancy) associated with land-use authorizations, permits, and leases issued on BLM lands. The stipulations would not apply to activities and uses where they are contrary to laws, regulations, or specific program guidance. The intent is to maintain consistency, to the extent possible, in applying stipulations to all surface-disturbing activities.

Surface-disturbing activities are those that normally result in more than negligible disturbance to public lands and accelerate the natural erosive process. Surface disturbance may, but does not always, require reclamation. These activities normally involve use and/or occupancy of the surface, cause disturbance to soils and vegetation, and are usually caused by motorized or mechanical actions. They include, but are not limited to: the use of mechanized earth-moving equipment; truck-mounted drilling and geophysical exploration equipment; off-road vehicle travel in areas designated as limited or closed to off-road vehicle use; vegetation treatments; construction of facilities such as power lines, pipelines, oil and gas wells; recreation sites, improvements for range and wildlife; new road construction; and use of pyrotechnics and explosives. Surface disturbance is not normally caused by casual-use activities. Activities that are not considered surface-disturbing include, but are not limited to: livestock grazing, cross-country hiking, minimum impact filming, and vehicular travel on designated routes.

C.1.1 DESCRIPTION OF STIPULATIONS

The following tables show resources of concern and stipulations including exceptions, modifications, and waivers by alternative. Three types of stipulations could be applied to land-use authorizations: 1) no surface occupancy (NSO), 2) timing limitations (TL), and 3) controlled surface use (CSU). Although not a stipulation, areas that are closed to oil and gas leasing and other surface-disturbing activities are also identified in the tables. All other areas are open to oil and gas leasing subject to standard terms and conditions.

Areas identified as NSO are open to oil and gas leasing but surface-disturbing activities can not be conducted on the surface of the land. Access to oil and gas deposits would require horizontal drilling from outside the boundaries of the NSO areas. NSO areas are avoidance areas for rights-of-way; no rights-of-ways would be granted in NSO areas unless there are no feasible alternatives. Where necessary in the future, NSO areas could be recommended for withdrawal from operations conducted under the mining laws (locatable minerals) if unacceptable resource

impacts are occurring or could occur. A NSO stipulation cannot be applied to operations conducted under the mining laws without a withdrawal. A withdrawal is not a land-use planning decision because it must be approved by the Secretary of Interior. Therefore, unless withdrawn, areas identified as NSO are open to operations conducted under the mining laws subject only to TL and CSU stipulations, which are consistent with the rights granted under the mining laws.

Areas identified as TL are open to oil and gas leasing but would be closed to surface-disturbing activities during identified time frames. This stipulation would not apply to operation and maintenance activities, including associated vehicle travel, unless otherwise specified.

Areas identified as CSU are open to oil and gas leasing but would require proposals for surface-disturbing activities to be authorized only according to the controls or constraints specified.

Areas identified as closed are not open to oil and gas leasing. Exceptions, modifications, and waivers do not apply to closed areas. Closed areas are exclusion areas for rights-of-way. WSAs and wilderness areas are closed to oil and gas leasing by the regulations found at 43 CFR 3100.0-3(a)(2)viii and xi. Also, areas identified with wilderness characteristics are closed in Alternative B. Other areas are partially closed to oil and gas leasing where it is not reasonable to apply a NSO stipulation across the entire area. This includes areas where the oil and gas resources are physically inaccessible by current directional drilling technology (1 mile) from outside the NSO area. These lands closed to oil and gas leasing are retained with a NSO stipulation for all other surface-disturbing activities and exceptions, modifications, and waivers apply to these activities. Closed areas identified with wilderness characteristics in Alternative B could be recommended for withdrawal of operations conducted under the mining laws. WSAs and wilderness areas are already protected from these activities by withdrawal or existing laws, regulations, and policies.

C.1.2 EXCEPTIONS, MODIFICATIONS, AND WAIVERS

Stipulations could be excepted, modified, or waived by the authorized officer. An exception exempts the holder of the land-use authorization document from the stipulation on a one-time basis. A modification changes the language or provisions of a surface stipulation, either temporarily or permanently. A waiver permanently exempts the surface stipulation. The environmental analysis document prepared for site specific proposals such as oil and gas development (i.e., APDs, sundry notices) also would need to address proposals to exempt, modify, or waive a surface stipulation.

C.1.3 STANDARD TERMS AND CONDITIONS

All surface-disturbing activities are subject to standard terms and conditions. These include the restrictions that are required for proposed actions in order to protect special status species and to comply with the Endangered Species Act. The requirements for individual species are found at the end of Table C.1. Standard terms and conditions for oil and gas leasing provide for relocation of proposed operations up to 200 meters, and provide for prohibiting surface-disturbing operations for a period not exceeding 60 days. The stipulations addressed in the table that are within the parameters of 200 meters and 60 days are considered open to oil and gas leasing subject to standard terms and conditions.

The placement of production facilities on hilltops and ridgelines will be prohibited where they are highly visible.

C.1.4 ENVIRONMENTAL BEST MANAGEMENT PRACTICES (BMP) FOR OIL AND GAS OPERATIONS

Best Management Practices (BMP) are state-of-the-art mitigation measures applied on a site-specific basis to reduce, prevent, or avoid adverse environmental or social impacts. BMPs are applied to management actions to aid in achieving desired outcomes for safe, environmentally sound, resource development by preventing, minimizing, or mitigating adverse impacts and reducing conflicts. For each proposed action, a number of BMPs may be applied as necessary to mitigate expected impacts. The following typical environmental BMPs will be applied on individual Applications for Permit to Drill and associated rights-of-way in the Moab Field Office. These procedures are consistent with current national guidance and the Surface Operating Standards and Guidelines for Oil and Gas Development (Gold Book), 2007. This list is not comprehensive and may be modified over time as conditions change and new practices are identified.

- Interim reclamation of the well and access road will begin as soon as practicable after a well is placed in production. Facilities will be grouped on the pads to allow for maximum interim reclamation. Interim reclamation will include road cuts and fills and will extend to within close proximity of the wellhead and production facilities.
- All aboveground facilities including power boxes, building doors, roofs, and any visible equipment will be painted a color selected from the latest national color charts that best allows the facility to blend into the background.
- All new roads will be designed and constructed to a safe and appropriate standard, “no higher than necessary” to accommodate intended vehicular use. Roads will follow the contour of the land where practical. Existing oil and gas roads that are in eroded condition or contribute to other resource concerns will be brought to BLM standards within a reasonable period of time.
- Final reclamation of all oil and gas disturbance will involve re-contouring of all disturbed areas, including access roads, to the original contour or a contour that blends with the surrounding topography and revegetating all disturbed areas.
- Raptor perch avoidance devices will be installed on all new power lines and existing lines that present a potential hazard to raptors.
- All power lines to individual well locations (excluding major power source lines to the operating oil or gas field) and all flow lines will be buried in or immediately adjacent to the access roads.
- In developing oil and gas fields, all production facilities will be centralized to avoid tanks and associated facilities on each well pad.
- The use of submersible pumps will be strongly encouraged, especially in VRM Class I, II or III areas or any area visible by the visiting public.

- The use of partial or completely below-grade wellheads will be strongly encouraged in high visibility areas as well as VRM Class I, II or III areas.
- Multiple wells will be drilled from a single well pad wherever feasible.
- Noise reduction techniques and designs will be used to reduce noise from compressors or other motorized equipment.
- Seasonal restrictions on public vehicular access will be evaluated where there are wildlife conflict or road damage/maintenance issues.
- The placement of production facilities on hilltops and ridgelines will be prohibited where they are highly visible.
- Monitoring of wildlife will occur to evaluate the effects of oil and gas development.
- The placement of production facilities on hilltops and ridgelines will be avoided.
- Facilities will be screened from view.
- Oil field wastes and spills will be bio-remediated.
- Common utility or right-of-way corridors containing roads, power lines, and pipelines will be used.

Table C.1 Resources of Concern and Stipulations Including Exceptions, Modifications, and Waivers by Alternative

Resource Of Concern	Applicable Area	Stipulation Code	Alternative			Stipulation Description
			B	PROPOSED PLAN	D	
Floodplains, Riparian Areas, Springs, and Public Water Reserves	Planning Area	CSU Open with standard terms for oil and gas leasing. The 200 meter rule would apply.	X	X	X	<p>Allow no surface-disturbing activities within 100 year floodplains or within 100 meters of riparian areas. Also, no surface-disturbing activities within public water reserves or within 100 meters of springs.</p> <p>Purpose: To protect floodplains, riparian areas, springs, and public water reserves.</p> <p>Exception: An exception could be authorized if: (a) there are no practical alternatives, (b) impacts could be fully mitigated, or (c) the action is designed to benefit and enhance the resource values.</p> <p>Modification: None</p> <p>Waiver: None</p>
River Corridors	Green, Colorado, and Dolores, Rivers 65,037 acres	NSO	X	X	X	<p>There would be no surface-disturbing activities within the area of the Three Rivers and Westwater mineral withdrawals. Where the NSO area is physically inaccessible to oil and gas drilling by current directional drilling technology (1 mile from outside the NSO area), it would be closed to oil and gas leasing. However, these lands remain NSO for all other surface-disturbing activities.</p> <p>Purpose: To protect riparian, wildlife, scenic, and recreational values along the major river corridors.</p> <p>Exception: An exception could be authorized if the use is consistent and compatible with protection or enhancement of the resource values or the use would provide suitable opportunities for public enjoyment of the applicable resources. No exception for oil and gas leasing.</p> <p>Exceptions could be made on the Colorado River along Highways 128 and 279, along Kane Creek Road, along the Green River from Swasey's Rapid to Ruby Ranch, and along the Dolores River from Entrada Ranch to the Colorado River confluence to maintain or improve infrastructure. These exceptions (subject to appropriate mitigation to minimize impacts to the applicable resources) could include minor rights-of-way to service private land and temporary use authorizations.</p>

Table C.1 Resources of Concern and Stipulations Including Exceptions, Modifications, and Waivers by Alternative

Resource Of Concern	Applicable Area	Stipulation Code	Alternative			Stipulation Description
			B	PROPOSED PLAN	D	
						<p>Modification: None</p> <p>Waiver: None</p>
Wild and Scenic Rivers	Planning Area (266 river miles)	NSO	X			<p>All river corridors recommended as Wild and Scenic would be NSO for oil and gas leasing. All other surface-disturbing activities would be precluded. (Those rivers in WSAs remain closed to oil and gas leasing and other surface-disturbing activities)</p> <p>Purpose: To protect riparian, wildlife, scenic, and recreational values along the major river corridors.</p> <p>Exception: An exception could be authorized (outside of WSAs) if the use is consistent and compatible with protection or enhancement of the resource values or the use would provide suitable opportunities for public enjoyment of the applicable resources. No exception for oil and gas leasing.</p>
Wild and Scenic Rivers	Planning Area (127.3 river miles suitable along the Colorado, Green, and Dolores rivers)	NSO		X		<p>All river corridors recommended as Wild and Scenic would be NSO for oil and gas leasing. All other surface-disturbing activities would be precluded</p> <p>Purpose: To protect riparian, wildlife, scenic, and recreational values along the major river corridors.</p> <p>Exception: An exception could be authorized if the use is consistent and compatible with protection or enhancement of the resource values or the use would provide suitable opportunities for public enjoyment of the applicable resources. No exception for oil and gas leasing.</p>
Sensitive Soils/Slopes	Planning Area	CSU	X	X	X	<p>Surface-disturbing proposals involving construction on slopes greater than 30% would be avoided. If the action cannot be avoided, rerouted, or relocated, then a proposal would include: an erosion control strategy, reclamation and a site plan with a detailed survey and design completed by a certified engineer. This proposal must be approved by the BLM prior to construction and maintenance.</p> <p>Purpose: To protect fragile soils on slopes.</p> <p>Exception: None</p>

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			B	PROPOSED PLAN	D	
						<p>Modification: None</p> <p>Waiver: None</p>
Sensitive Soils/Slopes	Bookcliffs	TL	X	X	X	<p>Where slopes are greater than 30% in the Bookcliffs, BLM approved surface-disturbing activities would not be allowed from November 1 to April 30. This restriction includes heavy equipment traffic on existing roads associated with drilling operations.</p> <p>Purpose: To minimize watershed damage in fragile soils on steep slopes.</p> <p>Exception: An exception could be granted if the operator can provide a plan of development demonstrating that the proposed action would be properly designed and constructed to support the anticipated types and levels of use. Roads must be designed to meet BLM road standards for drainage control and surfaced to support heavy equipment and tractor trailers. Adjustments to the timing restriction could be considered by the Field Manager on a case-by-case basis, depending on current soil and weather conditions.</p> <p>Modification: None</p> <p>Waiver: None</p>

Table C.1 Resources of Concern and Stipulations Including Exceptions, Modifications, and Waivers by Alternative

Resource Of Concern	Applicable Area	Stipulation Code	Alternative			Stipulation Description
			B	PROPOSED PLAN	D	
Fragile Soils/Slopes	Saline Soils in the Mancos Shale 330,142 acres	TL	X	X		<p>No surface-disturbing activities would be allowed during the period from December 1 to May 31. This restriction includes heavy equipment traffic on existing roads associated with drilling operations.</p> <p>Purpose: To minimize watershed damage including compaction, rutting, and topsoil loss on saline soils derived from the Mancos Shale.</p> <p>Exception: An exception could be granted if the operator can provide a plan of development demonstrating that the proposed action would be properly designed and constructed to support the anticipated types and levels of use. Roads must be designed to meet BLM road standards for drainage control and surfaced to support heavy equipment and tractor trailers. Adjustments to the timing restriction could be considered by the Field Manager on a case-by-case basis, depending on current soil and weather conditions.</p> <p>Modification: None</p> <p>Waiver: None</p>
Visual Resources	VRM II Areas	CSU	X 364,189 acres	X 349,683 acres	X 240,486 acres	<p>Surface-disturbing activities must meet the objectives of VRM II class objectives.</p> <p>Purpose: To protect high quality visual resources.</p> <p>Exception: The level of change to the landscape should be low; management activities may be seen, but should not attract attention of the casual observer. Any change to the landscape must repeat the basic elements of form, line, color, and texture found in the predominant natural features of the characteristic landscape. Surface-disturbing activities that are determined to be compatible and consistent with the protection or enhancement of the resource values are exempted. Also, recognized utility corridors are exempted only for utility projects which would be managed according to VRM III objectives.</p> <p>Modification: None</p> <p>Waiver: None</p>

Table C.1 Resources of Concern and Stipulations Including Exceptions, Modifications, and Waivers by Alternative

Resource Of Concern	Applicable Area	Stipulation Code	Alternative			Stipulation Description
			B	PROPOSED PLAN	D	
Visual Resources	Scenic Driving Corridors Highways 128, 279, 313, north U.S. 191; Needles, Anticline and Kane Creek Roads	NSO	X 1 mile from cent			No surface-disturbing activities would be allowed within scenic driving corridors. The width of the corridor varies by alternative. Purpose: To protect the visual resources along scenic corridors. Exception: An exception could be granted if: (a) a view shed analysis indicates no impairment of the visual resources from the driving corridor or (b) the action is determined to be consistent and compatible with protection or enhancement of the resource values or the use would provide suitable opportunities for public enjoyment of these resources. Modification: None Waiver: None
Visual Resources	Scenic Driving Corridors Highways 128, 279, 313, north U.S. 191; Needles, Anticline and Kane Creek Roads	CSU		X 0.5 mile from cent	X 0.25 mile from cent	Surface-disturbing activities within the corridor must meet VRM II class objectives. Purpose: To protect the visual resources along scenic corridors. Exception: An exception could be granted if: (a) a view shed analysis indicates no impairment of the visual resources from the driving corridor or (b) the action is determined to be consistent and compatible with protection or enhancement of the resource values or the use would provide suitable opportunities for public enjoyment of these resources. Modification: None Waiver: None
Visual Resources and Recreation	Sand Flats SRMA 6,246 acres	NSO	X	X		No surface-disturbing activities would be allowed within the Sand Flats SRMA. Purpose: To protect recreation and scenic values. Exception: An exception could be authorized if the use is consistent and compatible with protection or enhancement of the resource values or the use would provide suitable opportunities for public enjoyment of the applicable resources. No exception for oil and gas leasing.

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Resource Of Concern	Applicable Area	Stipulation Code	Alternative			Stipulation Description
			B	PROPOSED PLAN	D	
						<p>Modification: None</p> <p>Waiver: None</p>
Visual Resources and Recreation	Goldbar/Corona Arch Focus Area	NSO	X 4,781 acres	X 4,191 acres		<p>No surface-disturbing activities would be allowed in the Goldbar/Corona Arch area. The acreage changes by alternative.</p> <p>Purpose: To protect primitive hiking opportunities and scenic values.</p> <p>Exception: An exception could be authorized if the use is consistent and compatible with protection or enhancement of the resource values or the use would provide suitable opportunities for public enjoyment of the applicable resources. No exception for oil and gas leasing.</p> <p>Modification: None</p> <p>Waiver: None</p>
Developed Recreation Sites	Planning Area	NSO	X	X	X	<p>No surface-disturbing activities would be allowed within 0.5 miles of developed recreation sites (current and planned).</p> <p>Purpose: To protect federal investment in facilities, to provide for recreational use, and to protect the view shed from the facility.</p> <p>Exception: An exception could be granted if a view shed analysis indicates no impairment of the visual resources from the recreation site. Also, an exception could be authorized if the use is consistent and compatible with protection or enhancement of the resource values or the use would provide suitable opportunities for public enjoyment of the applicable resources. No exception for oil and gas leasing.</p> <p>Modification: None</p> <p>Waiver: None</p>
Private Property with Federal Minerals	Areas within Spanish Valley	NSO	X	X	X	<p>No surface-disturbing activities would be allowed on private surface/Federal minerals within unincorporated areas of Spanish Valley.</p> <p>Purpose: To reduce potential surface use conflicts with homes</p>

Table C.1 Resources of Concern and Stipulations Including Exceptions, Modifications, and Waivers by Alternative

Resource Of Concern	Applicable Area	Stipulation Code	Alternative			Stipulation Description
			B	PROPOSED PLAN	D	
						and viewsheds. Exception: An exception could be granted if it can be demonstrated that the action would not result in any surface use conflicts. Modification: None Waiver: None
Private Property with Federal Minerals	City of Moab and Town of Castle Valley (Incorporated Areas totaling 2,540 acres)	Closed	X	X	X	The incorporated areas of the City of Moab and the Town of Castle Valley would be closed to mineral leasing (oil and gas, potash). Purpose: Incorporated cities and towns are closed to oil and gas leasing by Federal regulation at 43 CFR 3100.0-3(a)(2)(iii). Exception: None. Modification: None Waiver: None
Moab Airport	Moab Airport	NSO	X	X	X	No surface-disturbing activities would be allowed within the Moab Airport area. Purpose: To eliminate potential safety issues and surface use conflicts. Exception: An exception could be granted if it can be demonstrated that the action would not result in any surface use conflicts. Modification: None Waiver: None
Moab Landfill	Moab Landfill	NSO	X	X	X	No surface-disturbing activities would be allowed within the Moab landfill area. Purpose: To eliminate potential safety issues and surface use conflicts. Exception: An exception could be granted if it can be demonstrated that the action would not result in any surface use conflicts.

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Resource Of Concern	Applicable Area	Stipulation Code	Alternative			Stipulation Description
			B	PROPOSED PLAN	D	
						<p>Modification: None</p> <p>Waiver: None</p>
Dead Horse Point State Park	Dead Horse Point State Park (Split estate with Federal minerals)	NSO	X	X	X	<p>No surface occupancy would be allowed within Dead Horse Point State Park.</p> <p>Purpose: To protect visual resources and to facilitate management of the State Park.</p> <p>Exception: None.</p> <p>Modification: None</p> <p>Waiver: None</p>
Mayberry Orchard	Split estate with Federal minerals along the Colorado River,	NSO	X	X	X	<p>No surface occupancy would be allowed on private surface/Federal minerals within Mayberry Orchard.</p> <p>Purpose: To reduce potential surface use conflicts with homes and view sheds.</p> <p>Exception: An exception could be granted if it can be demonstrated that the action would not result in any surface use conflicts.</p> <p>Modification: None</p> <p>Waiver: None</p>
Thompson Springs	Thompson Springs (Split estate with Federal minerals)	NSO	X	X	X	<p>No surface occupancy would be allowed on private surface/Federal minerals within Thompson Springs.</p> <p>Purpose: To reduce potential surface use conflicts with homes.</p> <p>Exception: An exception could be granted if it can be demonstrated that the action would not result in any surface use conflicts.</p> <p>Modification: None</p> <p>Waiver: None</p>
Castle Valley Municipal Watershed	BLM lands within the watershed. Includes split estate (private	Closed	X 10,321 acres			<p>The Castle Valley watershed would be closed to oil and gas leasing and other surface-disturbing activities.</p> <p>Purpose: To protect the sole source, unconfined, surficial aquifer of Castle Valley.</p>

Table C.1 Resources of Concern and Stipulations Including Exceptions, Modifications, and Waivers by Alternative

Resource Of Concern	Applicable Area	Stipulation Code	Alternative			Stipulation Description
			B	PROPOSED PLAN	D	
	surface/Federal minerals) within Castle Valley					<p>Exception: None</p> <p>Modification: None</p> <p>Waiver: None</p>
Castle Valley Municipal Watershed	BLM lands within the watershed. Includes split estate lands (private surface/Federal minerals) within Castle Valley	NSO		X 10,321 acres		<p>No surface-disturbing activities would be allowed within the Castle Valley watershed.</p> <p>Purpose: To protect the sole source, unconfined, surficial aquifer of Castle Valley.</p> <p>Exception: An exception could be granted for activities where it can be demonstrated that the proposed action would not result in a negative impact to the aquifer. No exception for oil and gas leasing.</p> <p>Modification: None</p> <p>Waiver: None</p>
Mill Creek-Spanish Valley Watershed (Moab area aquifer excluding the watershed within the WSA)	BLM lands within the watershed. Includes split estate lands (private surface/Federal minerals).	Closed	X 9,667 acres			<p>The Mill Creek-Spanish Valley watershed would be closed to oil and gas leasing and other surface-disturbing activities.</p> <p>Purpose: To protect the Moab area aquifer.</p> <p>Exception: None</p> <p>Modification: None</p> <p>Waiver: None</p>
Mill Creek-Spanish Valley Watershed (Moab area aquifer excluding the watershed within the WSA)	BLM lands within the watershed. Includes split estate lands (private surface/Federal minerals).	NSO		X 9,667 acres		<p>No surface-disturbing activities would be allowed within the Mill Creek-Spanish Valley watershed.</p> <p>Purpose: To protect the Moab area aquifer.</p> <p>Exception: An exception could be granted for activities where it can be demonstrated that the proposed action would not result in a negative impact to the aquifer. No exception for oil and gas leasing.</p> <p>Modification: None</p> <p>Waiver: None</p>
Moab Canyon Utility Corridor	Highway 191 Utility Corridor	NSO	X	X	X	No surface-disturbing activities would be allowed within the utility corridor other than those associated with utilities.

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Resource Of Concern	Applicable Area	Stipulation Code	Alternative			Stipulation Description
			B	PROPOSED PLAN	D	
	within Moab Canyon					<p>Purpose: To prevent future surface use conflicts along Highway 191 and within the utility corridor.</p> <p>Exception: An exception could be granted if it can be demonstrated that the action would not result in any surface use conflicts with utilities.</p> <p>Modification: None</p> <p>Waiver: None</p>
Areas with Wilderness Characteristics (non-WSA lands).	Beaver Creek, Fisher Towers, and Mary Jane Canyon	NSO	.	X 47,761 acres		<p>No surface-disturbing activities would be allowed. Certain lands within the Fisher Towers, Mary Jane, and Beaver Creek areas would be physically inaccessible to oil and gas drilling operations under a NSO stipulation and therefore would be closed to oil and gas leasing. These lands remain NSO for all other surface-disturbing activities.</p> <p>Purpose: To protect areas with wilderness characteristics.</p> <p>Exception: An exception could be authorized if the use is consistent and compatible with protection or enhancement of the resource values or the use would provide suitable opportunities for public enjoyment of the applicable resources. No exception for oil and gas leasing.</p> <p>Modification: None</p> <p>Waiver: None</p>
Potential ACEC	Behind the Rocks 17,836 acres in Alt B; 5,201 acres of designated ACEC in the Proposed Plan. For Alt. B, 12,635 acres are within the Behind the Rocks WSA and are closed to	NSO	X 5,201 acres	X 5,201 acres		<p>No surface-disturbing activities would be allowed in the Behind the Rocks ACEC (outside of the WSA).</p> <p>Purpose: To protect scenic values, cultural resources, and sensitive plants.</p> <p>Exception: An exception could be authorized if the use is consistent and compatible with protection or enhancement of the resource values or if the use would provide a public benefit or the use would provide suitable opportunities for public enjoyment of the resources. No exception for oil and gas leasing.</p> <p>Modification: None</p>

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Resource Of Concern	Applicable Area	Stipulation Code	Alternative			Stipulation Description
			B	PROPOSED PLAN	D	
	leasing					Waiver: None
Potential ACEC	Bookcliffs 304,252 acres (Approximately 290,544 acres are within WSAs and are closed to leasing)	NSO	X 14,708 acres			No surface-disturbing activities would be allowed in the Bookcliffs ACEC. Purpose: To protect wildlife values. Exception: An exception could be authorized if the use is consistent and compatible with protection or enhancement of the resource values or the use would provide suitable opportunities for public enjoyment of these resources. No exception for oil and gas leasing. Modification: None Waiver: None
No exception for oil and gas leasing. Potential ACEC	Canyon Rims 23,400 acres	NSO	X			No surface-disturbing activities would be allowed in the Canyon Rims ACEC. Certain lands within the ACEC would be physically inaccessible to oil and gas drilling operations under a NSO stipulation and therefore would be closed to oil and gas leasing. These lands remain NSO for all other surface-disturbing activities. Purpose: To protect scenic values. Exception: An exception could be authorized if the use is consistent and compatible with protection or enhancement of the resource values or the use would provide suitable opportunities for public enjoyment of these resources. No exception for oil and gas leasing. Modification: None Waiver: None
Potential ACEC	Cisco White-tailed Prairie Dog Complex 117,481 acres	NSO	X			Allow no surface-disturbing activities that would result in a permanent, aboveground facility (construct or place structures, roads, facilities) within the Cisco White-tailed Prairie Dog Complex. Purpose: To protect prairie dog habitat, colonies, and potential expansion areas. Exception: An exception could be granted if it is determined

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Resource Of Concern	Applicable Area	Stipulation Code	Alternative			Stipulation Description
			B	PROPOSED PLAN	D	
						that the habitat is not occupied. Modification: The Field Manager may modify the boundaries of the stipulation area if it is determined that portions of the area do not include prairie dog habitat. Waiver: May be granted if it is determined that habitat no long exists or has been destroyed.
Potential ACEC	Colorado River, Corridor 50,483 acres (2,751 acres are within the Negro Bill Canyon WSA and are closed to leasing)	NSO	X 47,737 acres			No surface-disturbing activities would be allowed in the Colorado River Corridor ACEC. Purpose: To protect scenic and wildlife values. Exception: An exception could be authorized if the use is consistent and compatible with protection or enhancement of the resource values or the use would provide suitable opportunities for public enjoyment of these resources. Additional exceptions could be made for actions to maintain or improve infrastructure on the Colorado River along Highways 128. These exceptions (subject to appropriate mitigation to minimize impacts to the applicable resources) could include minor rights-of-way to service private land and temporary use authorizations. No exception for oil and gas leasing. Modification: None Wavier: None
Potential ACEC	Cottonwood-Diamond Watershed 35,830 acres (34,005 acres are within a WSA and are closed to leasing)	NSO	X 1,825 acres	X 1,825 acres		No surface-disturbing activities would be allowed within the Cottonwood-Diamond ACEC. Purpose: To provide for public safety and watershed stabilization. Exception: When the hazard is no longer present, manage according to the other management provisions for the area. Modification: None Wavier: None
Potential ACEC	Highway 279/Shafer Basin/Long	NSO	X	X		No surface-disturbing activities would be allowed in the Highway 279/Shafer Basin/Long Canyon ACEC,

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Resource Of Concern	Applicable Area	Stipulation Code	Alternative			Stipulation Description
			B	PROPOSED PLAN	D	
	Canyon 13,500 acres					<p>Purpose: To protect rare plants, scenic, wildlife, and cultural resources.</p> <p>Exception: An exception could be authorized if the use is consistent and compatible with protection or enhancement of the resource values or the use would provide suitable opportunities for public enjoyment of these resources. No exception for oil and gas leasing.</p> <p>Modification: None</p> <p>Waiver: None</p>
Potential ACEC	Labyrinth Canyon 8,528 acres	NSO	X			<p>No surface-disturbing activities would be allowed in the Labyrinth Canyon ACEC.</p> <p>Purpose: To protect scenic and wildlife values.</p> <p>Exception: An exception could be authorized if the use is consistent and compatible with protection or enhancement of the resource values or the use would provide suitable opportunities for public enjoyment of these resources. No exception for oil and gas leasing.</p> <p>Modification: None</p> <p>Waiver: None</p>
Potential ACEC	Mill Creek Canyon 13,501 acres in Alt B; 3,721 acres of designated ACEC in Proposed Plan. Within Alt B, 9,780 acres are within the Mill Creek Canyon WSA and are closed to leasing.	NSO	X 3,721 acres	X 3,721 acres		<p>No surface-disturbing activities would be allowed in the Mill Creek Canyon ACEC.</p> <p>Purpose: To protect scenic, cultural, wildlife, and riparian values.</p> <p>Exception: An exception could be authorized if the use is consistent and compatible with protection or enhancement of the resource values or the use would provide suitable opportunities for public enjoyment of these resources. No exception for oil and gas leasing.</p> <p>Modification: None</p> <p>Waiver: None</p>

Table C.1 Resources of Concern and Stipulations Including Exceptions, Modifications, and Waivers by Alternative

Resource Of Concern	Applicable Area	Stipulation Code	Alternative			Stipulation Description
			B	PROPOSED PLAN	D	
Potential ACEC	Ten Mile Wash 4,980 acres	NSO	X	X		<p>No surface-disturbing activities would be allowed within the Ten Mile ACEC.</p> <p>Purpose: To protect cultural and riparian values.</p> <p>Exception: An exception could be authorized if the use is consistent and compatible with protection or enhancement of the resource values or the use would provide suitable opportunities for public enjoyment of these resources. No exception for oil and gas leasing.</p> <p>Modification: None</p> <p>Wavier: None</p>
Potential ACEC	Upper Courthouse 11,529 acres	NSO	X			<p>No surface-disturbing activities would be allowed within the Upper Courthouse ACEC.</p> <p>Purpose: To protect historic/cultural/paleontological resources and rare plants.</p> <p>Exception: An exception could be authorized if the use is consistent and compatible with protection or enhancement of the resource values or the use would provide suitable opportunities for public enjoyment of these resources. No exception for oil and gas leasing.</p> <p>Modification: None</p> <p>Waiver: None</p>
Mesa-top Relict Vegetation	Upper Courthouse Wash Area 3,162 acres	NSO		X		<p>No surface-disturbing activities would be allowed on the mesa-tops in the upper Courthouse Wash area.</p> <p>Purpose: To protect relict vegetation.</p> <p>Exception: An exception could be authorized if the use is consistent and compatible with protection or enhancement of the resource values or the use would provide suitable opportunities for public enjoyment of these resources. No exception for oil and gas leasing.</p> <p>Modification: None</p> <p>Waiver: None</p>

Table C.1 Resources of Concern and Stipulations Including Exceptions, Modifications, and Waivers by Alternative

Resource Of Concern	Applicable Area	Stipulation Code	Alternative			Stipulation Description
			B	PROPOSED PLAN	D	
Potential ACEC	Westwater Canyon 5,069 acres	Closed	X			The potential ACEC is entirely within the Westwater Canyon WSA which is closed to oil and gas leasing. Purpose: To protect scenic values. Exception: None Modification: None Wavier: None
Potential ACEC	White Wash 2,988 acres	NSO	X			No surface-disturbing activities would be allowed within the White Wash ACEC. Purpose: To protect dunefield riparian values. Exception: An exception could be authorized if the use is consistent and compatible with protection or enhancement of the resource values or the use would provide suitable opportunities for public enjoyment of these resources. No exception for oil and gas leasing. Modification: None Waiver: None
Potential ACEC	Wilson Arch 3,700 acres	NSO	X			No surface-disturbing activities would be allowed in the Wilson Arch ACEC. Purpose: To protect scenic values. Exception: An exception could be authorized if the use is consistent and compatible with protection or enhancement of the resource values or the use would provide suitable opportunities for public enjoyment of these resources. No exception for oil and gas leasing. Modification: None Wavier: None
Special Status Species: Greater Sage-grouse	Lek Sites	CSU/TL	X 12,850 acres 2 mi.	X 3,068 acres mi. radius 2 & 0.5	X 1,986 acres 0.25	If Greater Sage-grouse leks are discovered, no surface-disturbing activities would be allowed (1) within 2 miles, 0.5 miles, or 0.25 miles of a lek (depending on selected alternative) from March 1 st through May 15 th , and (2) no permanent aboveground facilities would be allowed within the selected

Table C.1 Resources of Concern and Stipulations Including Exceptions, Modifications, and Waivers by Alternative

Resource Of Concern	Applicable Area	Stipulation Code	Alternative			Stipulation Description
			B	PROPOSED PLAN	D	
			radius		mi. radius	<p>buffer on a year-round basis.</p> <p>Purpose: To protect occupied lek sites within Greater sage-grouse habitat.</p> <p>Exception: An exception may be granted by the Field Manager if the operator submits a plan which demonstrates that impacts from the proposed action can be adequately mitigated.</p> <p>Modification: The Field Manager may modify the boundaries of the stipulation area if (1) portions of the area do not include lek sites, or (2) the lek site(s) have been completely abandoned or destroyed, or (3) occupied lek site(s) occur outside the current defined area; as determined by the BLM.</p> <p>Waiver: A waiver may be granted if there are no active lek site(s) in the leasehold and it is determined the site(s) have been completely abandoned or destroyed or occur outside current defined area, as determined by the BLM.</p>
Special Status Species: Greater Sage-grouse	Nesting and Brood Rearing Habitat	TL	X 12,850 acres	X 3,068 acres	X 1,986 acres	<p>Allow no surface-disturbing activities in occupied nesting and brood rearing habitat from March 15th to July 15th.</p> <p>Purpose: To protect occupied nesting and brood rearing habitat for the Greater sage-grouse.</p> <p>Exception: An exception may be granted by the Field Manager if the operator submits a plan which demonstrates that impacts from the proposed action can be adequately mitigated or it is determined the brooding/nesting habitat is <u>not active</u>.</p> <p>Modification: The Field Manager may modify the boundaries of the stipulation area if (1) portions of the area do not include brooding/nesting habitat, or (2) the brooding/nesting habitat has been completely abandoned or destroyed, or (3) occupied brooding/nesting habitat occurs outside the current defined area; as determined by the BLM.</p> <p>Waiver: A waiver may be granted if there is no active brooding/nesting habitat in the leasehold and it is determined the habitat has been completely abandoned or destroyed or occurs outside the current defined area, as determined by the BLM.</p>

Table C.1 Resources of Concern and Stipulations Including Exceptions, Modifications, and Waivers by Alternative

Resource Of Concern	Applicable Area	Stipulation Code	Alternative			Stipulation Description
			B	PROPOSED PLAN	D	
Special Status Species: Greater Sage-grouse	Winter Habitat	TL	X 12,850 acres	X 3,068 acres	X 1,986 acres	<p>Allow no surface-disturbing activities in occupied winter habitat from November 15th to March 14th.</p> <p>Purpose: To protect occupied winter habitat for the Greater sage-grouse.</p> <p>Exception: An exception may be granted by the Field Manager if the operator submits a plan which demonstrates that impacts from the proposed action can be adequately mitigated or it is determined the habitat is <u>not occupied</u> during the winter season.</p> <p>Modification: The Field Manager may modify the boundaries of the stipulation area if (1) portions of the area do not include winter habitat, or (2) the brooding/nesting habitat has been completely abandoned or destroyed, or (3) occupied winter activity occurs outside the current defined area; as determined by the BLM.</p> <p>Waiver: A waiver may be granted if the winter habitat in the leasehold has been completely abandoned or destroyed or occurs outside the current defined area, as determined by the BLM.</p>
Special Status Species: Gunnison Sage-grouse	Lek Sites	CSU/TL	X 246,107 acres 2 mi. radius	X 175,727 acres 2 & 0.5 mi. radius	X 41,620 acres 0.25 mi. radius	<p>If Gunnison sage-grouse leks are discovered, no surface-disturbing activities will be allowed (1) within 2 miles, 0.5 miles, or 0.25 miles of a lek (depending on selected alternative) from March 20th through May 15th, and (2) no permanent aboveground facilities would be allowed within the selected buffer on a year-round basis.</p> <p>Purpose: To protect occupied lek sites within Gunnison sage-grouse habitat.</p> <p>Exception: An exception may be granted by the Field Manager if the operator submits a plan which demonstrates that impacts from the proposed action can be adequately mitigated.</p> <p>Modification: The Field Manager may modify the boundaries of the stipulation area if (1) portions of the area do not include lek sites, or (2) the lek site(s) have been completely abandoned or destroyed, or (3) occupied lek site(s) occur outside the current defined area; as determined by the BLM.</p>

Table C.1 Resources of Concern and Stipulations Including Exceptions, Modifications, and Waivers by Alternative

Resource Of Concern	Applicable Area	Stipulation Code	Alternative			Stipulation Description
			B	PROPOSED PLAN	D	
						<p>Waiver: A waiver may be granted if there are no active lek site(s) in the leasehold and it is determined the site(s) have been completely abandoned or destroyed or occur outside current defined area, as determined by the BLM.</p>
Special Status Species: Sagebrush/sage-grouse habitat	Planning area	CSU	X 2:1 ratio 258,957 acres	X 1:1 ratio 178,975 acres	X 1:1 ratio 43,606 acres	<p>There will be no net loss of sagebrush/steppe habitat from federal actions. Loss of sagebrush/steppe habitat essential to wildlife (i.e., sage-grouse and other sagebrush obligate species) will be reclaimed or enhanced at the ratio established by the alternative.</p> <p>Purpose: To protect sagebrush/sage steppe communities</p> <p>Exception: An exception may be granted by the Field Manager if the operator submits a plan which demonstrates that impacts from the action would not result in any net loss of habitat.</p> <p>Modification: The Field Manager may modify the boundaries of the stipulation area if portions of the area do not include habitat or are outside the current defined area, as determined by the BLM.</p> <p>Waiver: May be granted to the stipulation area if it is determined the habitat no longer exists or has been destroyed.</p>
Special Status Species: White-tailed Prairie Dog	White-tailed prairie dog habitat	CSU	X 199,505 acres Incl. 117,481 acres of ACEC			<p>Do not allow surface-disturbing activities within 1300 feet of prairie dog colonies identified within prairie dog habitat (the size of the habitat varies by alternative). No permanent aboveground facilities would be allowed within the 1300 feet buffer. The ACEC acreage included in Alternative B would be managed according to the stipulation for the Cisco White-tailed Prairie Dog Complex ACEC).</p> <p>Purpose: To protect white-tailed prairie dog habitat.</p> <p>Exception: An exception may be granted if the applicant submits a plan that indicates that impacts of the proposed action can be adequately mitigated or, if due to the size of the town, there is no reasonable location to develop a lease and avoid colonies the Field Manager will allow for loss of prairie dog colonies and/or habitat to satisfy terms and conditions of the lease.</p>

Table C.1 Resources of Concern and Stipulations Including Exceptions, Modifications, and Waivers by Alternative

Resource Of Concern	Applicable Area	Stipulation Code	Alternative			Stipulation Description
			B	PROPOSED PLAN	D	
						<p>Modification: The Field Manager may modify the boundaries of the stipulation area if portions of the area does not include prairie dog habitat or <i>active</i> colonies are found outside current defined area, as determined by BLM.</p> <p>Waiver: May be granted if in the leasehold if is determined that habitat no longer exists or has been destroyed.</p>
<p>Special Status Species: White-tailed Prairie Dog</p>	White-tailed prairie dog habitat	<p>CSU Open with standard terms for oil and gas leasing. The 200 meter rule can be applied.</p>		<p>X 117,481 acres</p>	<p>X 31,186 acres</p>	<p>Do not allow surface-disturbing activities within 660 feet of prairie dog colonies identified within prairie dog habitat (the size of the habitat varies by alternative). No permanent aboveground facilities would be allowed within the 660 feet buffer.</p> <p>Purpose: To protect white-tailed prairie dog habitat.</p> <p>Exception: An exception may be granted if the applicant submits a plan that indicates that impacts of the proposed action can be adequately mitigated or, if due to the size of the town, there is no reasonable location to develop a lease and avoid colonies the Field Manager will allow for loss of prairie dog colonies and/or habitat to satisfy terms and conditions of the lease.</p> <p>Modification: The Field Manager may modify the boundaries of the stipulation area if portions of the area does not include prairie dog habitat or <i>active</i> colonies are found outside current defined area, as determined by BLM.</p> <p>Waiver: May be granted if in the leasehold if is determined that habitat no longer exists or has been destroyed.</p>
<p>Special Status Species: Gunnison Prairie Dog</p>	Gunnison prairie dog habitat	CSU	<p>X 10,740 acres</p>			<p>Do not allow surface-disturbing activities within 1300 feet of active prairie dog colonies identified within prairie dog habitat. No permanent aboveground facilities would be allowed within the 1300 feet buffer.</p> <p>Purpose: To protect Gunnison prairie dog habitat.</p> <p>Exception: An exception may be granted if the applicant submits a plan that indicates that impacts of the proposed action can be adequately mitigated or, if due to the size of the town, there is no reasonable location to develop a lease and avoid colonies the Field Manager will allow for loss of prairie</p>

Table C.1 Resources of Concern and Stipulations Including Exceptions, Modifications, and Waivers by Alternative

Resource Of Concern	Applicable Area	Stipulation Code	Alternative			Stipulation Description
			B	PROPOSED PLAN	D	
						<p>dog colonies and/or habitat to satisfy terms and conditions of the lease.</p> <p>Modification: The Field Manager may modify the boundaries of the stipulation area if portions of the area does not include prairie dog habitat or <i>active</i> colonies are found outside current defined area, as determined by BLM.</p> <p>Waiver: May be granted if it is determined that the habitat no longer exists or has been destroyed within the leasehold.</p>
<p>Special Status Species: Gunnison Prairie Dog</p>	Gunnison prairie dog habitat	<p>CSU</p> <p>Open with standard terms for oil and gas leasing. The 200 meter rule can be applied.</p>		<p>X</p> <p>10, 740 acres</p>		<p>Do not allow surface-disturbing activities within 660 feet of active prairie dog colonies identified within prairie dog habitat. No permanent aboveground facilities would be allowed within the 660 feet buffer.</p> <p>Purpose: To protect Gunnison prairie dog habitat.</p> <p>Exception: An exception may be granted if the applicant submits a plan that indicates that impacts of the proposed action can be adequately mitigated or, if due to the size of the town, there is no reasonable location to develop a lease and avoid colonies the Field Manager will allow for loss of prairie dog colonies and/or habitat to satisfy terms and conditions of the lease.</p> <p>Modification: The Field Manager may modify the boundaries of the stipulation area if portions of the area does not include prairie dog habitat or <i>active</i> colonies are found outside current defined area, as determined by BLM.</p> <p>Waiver: May be granted if it is determined that the habitat no longer exists or has been destroyed within the leasehold.</p>
<p>Wildlife: Desert Bighorn Sheep</p>	Desert Bighorn Lambing Grounds and Migration Corridors	NSO	<p>X</p> <p>130,419 acres</p>			<p>No surface-disturbing activities would be allowed within desert bighorn lambing grounds and migration corridors. Certain lands within the habitat would be physically inaccessible to oil and gas drilling operations under a NSO stipulation and therefore would be closed to oil and gas leasing. These lands remain NSO for all other surface-disturbing activities.</p> <p>Purpose: To minimize disturbance within desert bighorn lambing grounds and migration corridors.</p>

Table C.1 Resources of Concern and Stipulations Including Exceptions, Modifications, and Waivers by Alternative

Resource Of Concern	Applicable Area	Stipulation Code	Alternative			Stipulation Description
			B	PROPOSED PLAN	D	
						<p>Exception: The Field Manager may grant an exception if the operator submits a plan which demonstrates that impacts from the proposed action can be adequately mitigated.</p> <p>Modification: The Field Manager may modify the boundaries of the stipulation area if a portion of the area is (1) not being used as desert bighorn lambing grounds or migration corridors (2) if habitat is being utilized outside of stipulation boundaries for and needs to be protected.</p> <p>Waiver: A waiver may be granted if the habitat is determined as unsuitable for lambing or migration and there is no reasonable likelihood of future use as desert bighorn lambing grounds and migration corridors.</p>
Wildlife – Desert Bighorn Sheep	Desert Bighorn Lambing Grounds and Migration Corridors	NSO		X 101,897 acres		<p>No surface-disturbing activities would be allowed within desert bighorn lambing grounds and migration corridors.</p> <p>Purpose: To minimize disturbance within desert bighorn lambing grounds and migration corridors.</p> <p>Exception: Within migration corridors, pipeline and road construction and geophysical exploration for oil and gas development would be allowed from June 16th through October 14th and from December 16th through March 31st. The Field Manager may also grant an exception if the operator submits a plan which demonstrates that impacts from the proposed action can be adequately mitigated.</p> <p>Modification: The Field Manager may modify the boundaries of the stipulation area if a portion of the area is (1) not being used as desert bighorn lambing grounds or migration corridors (2) if habitat is being utilized outside of stipulation boundaries for and needs to be protected.</p> <p>Waiver: A waiver may be granted if the habitat is determined as unsuitable for lambing or migration and there is no reasonable likelihood of future use as desert bighorn lambing and/or rutting grounds and migration corridors.</p>
Wildlife – Desert Bighorn	Desert Bighorn Lambing and	TL			X 46,31	No surface-disturbing activities would be allowed from April 1 to June 15 and from October 15 to December 15 within desert

Table C.1 Resources of Concern and Stipulations Including Exceptions, Modifications, and Waivers by Alternative

Resource Of Concern	Applicable Area	Stipulation Code	Alternative			Stipulation Description
			B	PROPOSED PLAN	D	
Sheep	Rutting Grounds				9 acres	<p>bighorn lambing and rutting grounds.</p> <p>Purpose: To minimize disturbance within bighorn lambing grounds.</p> <p>Exception: None</p> <p>Modification: The Field Manager may modify the boundaries of the stipulation area if a portion of the area is (1) not being used as desert bighorn lambing grounds or (2) if habitat is being utilized outside of stipulation boundaries and needs to be protected</p> <p>Waiver: A waiver may be granted if the habitat is determined as unsuitable for lambing and there is no reasonable likelihood of future use as desert bighorn lambing grounds.</p>
Wildlife – Pronghorn	Pronghorn Fawning Grounds within Cisco Desert & Hatch Point (LaSal Wildlife Management Units)	TL Open with standard terms for oil and gas leasing. The 60 day rule can be applied	X 882,001 acres	X 293,741 acres	X 78,477 acres	<p>Allow no surface-disturbing activities from May 1 to June 15 within fawning grounds. The acreage of habitat varies by alternative.</p> <p>Purpose: To minimize stress and disturbance during critical antelope birthing time.</p> <p>Exception: May be granted to these dates by the Field Manager if the operator submits a plan which demonstrates that impacts from the proposed action can be adequately mitigated or if it is determined the habitat is not being utilized for fawning in any given year.</p> <p>Modification: The Field Manager may modify the boundaries of the stipulation area if a portion of the area is not being used as fawning grounds or if habitat is being utilized outside of stipulation boundaries as crucial fawning grounds and needs to be protected.</p> <p>Waiver: May be granted if the fawning grounds are determined to be unsuitable or unoccupied and there is no reasonable likelihood of future use of the fawning grounds.</p>
Wildlife – Deer & Elk	Deer and Elk Winter Range	TL	X 635,774 acres	X 349,955 acres	X 349,955	<p>Do not allow surface-disturbing activities from November 1 to May 15 (Alt B), from November 15 to April 15 (Proposed Plan), and from December 1 to April 15 (Alt D). The acreage of habitat</p>

Table C.1 Resources of Concern and Stipulations Including Exceptions, Modifications, and Waivers by Alternative

Resource Of Concern	Applicable Area	Stipulation Code	Alternative			Stipulation Description
			B	PROPOSED PLAN	D	
					acres	<p>varies by alternative.</p> <p>Purpose: To minimize stress and disturbance to deer and elk during critical winter months.</p> <p>Exception: This stipulation does not apply to the maintenance and operation of existing and ongoing facilities. An exception may be granted by the Field Manager if the operator submits a plan which demonstrates that impacts from the proposed action can be adequately mitigated or it is determined the habitat is not being utilized during the winter period for any given year.</p> <p>Modification: The Field Manager may modify the boundaries of the stipulation area (1) if a portion of the area is not being used as winter range by deer/elk or (2) if habitat is being utilized outside of stipulation boundaries as winter range and needs to be protected or (3) if the migration patterns have changed causing a difference in the season of use.</p> <p>Waiver: May be granted if the winter range habitat is unsuitable or unoccupied during winter months by deer/elk and there is no reasonable likelihood of future winter range use.</p>

Table C.1 Resources of Concern and Stipulations Including Exceptions, Modifications, and Waivers by Alternative

Resource Of Concern	Applicable Area	Stipulation Code	Alternative			Stipulation Description
			B	PROPOSED PLAN	D	
Wildlife – Deer & Elk	Deer and Elk Fawning and Calving Habitat (Bookcliffs and La Sal Wildlife Management Units)	TL Open with standard terms for oil and gas leasing. The 60 day rule can be applied	X 105,636 acres	X 105,636 acres	X 105,636 acres	<p>Allow no surface-disturbing activities in deer and elk fawning and calving habitat from May 15 to June 30.</p> <p>Purpose: To minimize stress and disturbance during this critical period.</p> <p>Exception: This stipulation does not apply to the maintenance and operation of existing and ongoing facilities. An exception may be granted by the Field Manager if the operator submits a plan which demonstrates that impacts from the proposed action can be adequately mitigated or it is determined the habitat is not being utilized during the critical period for any given year.</p> <p>Modification: The Field Manager may modify the boundaries of the stipulation area (1) if a portion of the area is not being used as fawning and calving habitat or (2) if the habitat is being utilized outside of stipulation boundaries and needs to be protected or (3) if the migration patterns have changed causing a difference in the season of use.</p> <p>Waiver: May be granted if the fawning and calving habitat is unsuitable or unoccupied during winter months by deer/elk and there is no reasonable likelihood of future winter range use.</p>

Table C.2. Closed Areas (Nondiscretionary)

Resource Of Concern	Applicable Area	Stipulation Code	Alternative			Stipulation Description
			B	PROPOSED PLAN	D	
Wilderness Study Areas	Behind The Rocks (12,635 acres), Black Ridge (52 acres), Coal Canyon (64,546 acres), Desolation Canyon (81,603 acres), Floy Canyon (72,605 acres), Flume Canyon (50,800 acres), Lost Spring Canyon (1,624 acres), Mill Creek Canyon (9,780 acres), Negro Bill Canyon (7,820 acres), Spruce Canyon (20,990 acres), West Water Canyon (31,160 acres). Total = 353,606 acres	Closed	X	X	X	Areas within Wilderness Study Areas are closed to oil and gas leasing and other surface-disturbing activities. Purpose: To protect wilderness values. Exception: None Modification: None Waiver: None
Designated wilderness	Black Ridge (5,200 acres)	Closed	X	X	X	The designated Black Ridge Wilderness is closed to oil and gas leasing and other surface-disturbing activities. Purpose: To protect wilderness values. Exception: None Modification: None Waiver: None

Table C.3. Closed Areas Applicable Only to Oil and Gas Leasing (Discretionary)

Resource Of Concern	Applicable Area	Stipulation Code	Alternative			Stipulation Description
			B	PROPOSED PLAN	D	
Areas with Wilderness Characteristics	Arches Adjacent, Beaver Creek, Behind the Rocks, Big Triangle, Coal Canyon, Dead Horse Cliffs, Desolation Canyon, Diamond Canyon, Dome Plateau, Fisher Towers, Goldbar, Gooseneck, Granite Creek, Harts Point, Hatch Wash, Hells Hole, Hideout Canyon, Horsethief Point, Hunter Canyon, Labyrinth Canyon, Lockhart/Hatch/Harts, Lost Spring Canyon, Mary Jane Canyon, Mexico Point, Mill Creek Canyon, Negro Bill Canyon (including Morning Glory and Porcupine Rim), Shafer Canyon, Spruce Canyon, Westwater Canyon, Westwater Creek, Yellow Bird Total = 265,485 acres	Closed	X			<p>Areas identified with wilderness characteristics are closed to oil and gas leasing and other surface-disturbing activities.</p> <p>Purpose: To protect the resource values associated with wilderness characteristics.</p> <p>Exception: None</p> <p>Modification: None</p> <p>Waiver: None</p>

Table C.3. Closed Areas Applicable Only to Oil and Gas Leasing (Discretionary)

Resource Of Concern	Applicable Area	Stipulation Code	Alternative			Stipulation Description
			B	PROPOSED PLAN	D	
Lands where a NSO stipulation is not reasonable because they would be physically inaccessible to oil and gas directional drilling operations	Within areas of Big Horn Sheep Habitat and Canyon Rims ACEC.	Closed	X			<p>The lands identified would be closed to oil and gas leasing because they would be physically inaccessible by directional drilling operations using current technology if a NSO stipulation were to be applied. These areas remain NSO for all other surface-disturbing activities.</p> <p>Purpose: To protect the resource values within the areas identified.</p> <p>Exception: None</p> <p>Modification: None</p> <p>Waiver: None</p>
Lands where a NSO stipulation is not reasonable because they would be physically inaccessible to oil and gas directional drilling operations.	Within areas of the Three Rivers Withdrawal, and within the Beaver Creek, Fisher Towers and Mary Jane areas with wilderness characteristics (25,306 acres).	Closed		X		<p>The lands identified would be closed to oil and gas leasing because they would be physically inaccessible by directional drilling operations using current technology if a NSO stipulation were to be applied. These areas remain NSO for all other surface-disturbing activities.</p> <p>Purpose: To protect the resource values within the areas identified.</p> <p>Exception: None</p> <p>Modification: None</p> <p>Waiver: None</p>

Table C.4. Standard Terms and Conditions (Oil and Gas Lease Notices) Applicable to all Surface-disturbing activities Which are Required to Protect Special Status and Federally Protected Species and to Comply with the Endangered Species Act

Resource Of Concern	Applicable Area	Stipulation Code	Alternative				Stipulation Description
			A	B	PROPOSED PLAN	D	
Special Status Species: Mexican Spotted Owl (MSO)	MSO Habitat and Nest Sites 121,686 acres	CSU/TL	X	X	X	X	<p>In areas that contain suitable habitat for MSO or designated Critical Habitat, actions would be avoided or restricted that may cause stress and disturbance during nesting and rearing of their young. Appropriate measures would 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, i.e., creation of a permanent structure. Current avoidance and minimization measures include the following:</p> <p>Surveys will be required prior to implementation of the proposed action. All surveys must be conducted by qualified individual(s) acceptable to the BLM.</p> <p>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.</p> <p>Document type of activity, acreage and location of direct habitat impacts, type and extent of indirect impacts relative to location of suitable owl habitat.</p> <p>Document if action is temporary or permanent.</p> <p>Activities may 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</p>

Table C.4. Standard Terms and Conditions (Oil and Gas Lease Notices) Applicable to all Surface-disturbing activities Which are Required to Protect Special Status and Federally Protected Species and to Comply with the Endangered Species Act

Resource Of Concern	Applicable Area	Stipulation Code	Alternative				Stipulation Description
			A	B	PROPOSED PLAN	D	
							<p>reinitiated.</p> <p>Any activity that includes water production should be managed to ensure maintenance of enhancement of riparian habitat.</p> <p>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 MSO nesting.</p> <p>For all temporary actions that may impact owls or suitable habitat:</p> <ul style="list-style-type: none"> a. If the action occurs entirely outside of the owl breeding season from March 1 through August 31, and leaves no permanent structure or permanent habitat disturbance, the action can proceed without an occupancy survey. b. If the action will occur during a breeding season, a survey for owls is required prior to commencing the activity. If owls are found, the activity should be delayed until outside of the breeding season. c. Rehabilitate access routes created by the project through such means as raking out scars, re-vegetation, gating access points, etc. <p>For all permanent actions that may impact owls or suitable habitat:</p> <ul style="list-style-type: none"> a. Survey two consecutive years for owls according to accepted protocol prior to commencing activities. b. If owls are found, no disturbing actions will occur within 0.5 mile of an identified site. If nest site is unknown, no activity will occur within the designated current and historic Protected Activity

Table C.4. Standard Terms and Conditions (Oil and Gas Lease Notices) Applicable to all Surface-disturbing activities Which are Required to Protect Special Status and Federally Protected Species and to Comply with the Endangered Species Act

Resource Of Concern	Applicable Area	Stipulation Code	Alternative				Stipulation Description
			A	B	PROPOSED PLAN	D	
							<p>Center (PAC).</p> <p>c. Avoid permanent structures within 0.5 mile of suitable habitat unless surveyed and not occupied.</p> <p>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 contingent upon a noise analysis to ensure noise does not encroach upon a 0.5 mile buffer for suitable habitat, including canyon rims.</p> <p>e. Limit disturbances to and within suitable habitat by staying on designated and/or approved routes.</p> <p>f. Limit new access routes created by the project.</p> <p>Modifications to the Surface Use Plan of Operations may be required in order to protect the MSO and/or habitat in accordance with Section 6 of the lease terms, the Endangered Species Act, and the regulations at 43 CFR 3101.1-2.</p> <p>Purpose: To protect MSO habitat.</p> <p>Exception: An exception may be granted by the Field Manager if authorization is obtained from USFWS (through applicable provisions of the ESA). The Field Manager may also grant an exception if an environmental analysis indicates that the nature or the conduct of the actions would not impair the primary constituent element determined necessary for the survival and recovery of the MSO and USFWS concurs with this determination.</p> <p>Modification: The Field Manager may modify the boundaries of the stipulation area if an environmental analysis indicates and USFWS (through applicable</p>

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Resource Of Concern	Applicable Area	Stipulation Code	Alternative				Stipulation Description
			A	B	PROPOSED PLAN	D	
							provisions of the ESA) determines a portion of the area is not being used as Critical Habitat. Waiver: A waiver may be granted if the MSO is de-listed and the Critical Habitat is determined by USFWS as not necessary for the survival and recovery of the MSO.
Federally Protected Species: Bald Eagles	Nest sites and winter roost areas within habitat for Bald Eagles 143,421 acres	CSU/TL	X	X	X	X	In areas that contain habitat for the bald eagle, actions would be avoided or restricted that may cause stress and disturbance during nesting and rearing of their young. 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, i.e., creation of a permanent structure. Current avoidance and minimization measures include the following: <ol style="list-style-type: none"> 1. Surveys would 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 would require monitoring throughout the duration of the project. To ensure desired results are being achieved, minimization measures would be evaluated. 3. Water production would be managed to ensure maintenance or enhancement of riparian habitat.

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Resource Of Concern	Applicable Area	Stipulation Code	Alternative				Stipulation Description
			A	B	PROPOSED PLAN	D	
							<p>4. Temporary activities within 1.0 mile of nest sites would 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.</p> <p>5. Temporary activities within 0.5 miles of winter roost areas, e.g., cottonwood galleries, would 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.</p> <p>6. No permanent infrastructure would be placed within 1.0 mile of nest sites.</p> <p>7. No permanent infrastructure would be placed within 0.5 miles of winter roost areas.</p> <p>8. Remove big game carrion to 100 feet from on lease roadways occurring within bald eagle foraging range.</p> <p>9. Avoid loss or disturbance to large cottonwood gallery riparian habitats.</p> <p>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 direction drilling to avoid direct impacts to large cottonwood gallery riparian habitats. Ensure that such direction drilling does not intercept or degrade alluvial aquifers.</p> <p>11. All areas of surface disturbance within riparian areas and/or adjacent uplands should be re-vegetated with native species.</p>

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Resource Of Concern	Applicable Area	Stipulation Code	Alternative				Stipulation Description
			A	B	PROPOSED PLAN	D	
							<p>Additional measures may also be employed to avoid or minimize effects to the species between the lease stage and lease development stage.</p> <p>Purpose: To protect bald eagle habitat.</p> <p>Exception: An exception may be granted by the Field Manager if authorization is obtained from USFWS (through applicable provisions of the ESA). The Field Manager may also grant an exception if an environmental analysis indicates that the nature of the conduct of the actions, as proposed or conditioned, would not impair the primary constituent element determined necessary for the survival and recovery of the Bald Eagles and USFWS and UDWR concur with this determination.</p> <p>Modification: The Field Manager may modify the boundaries of the stipulation area if an environmental analysis indicates, and USFWS and UDWR (through applicable provisions of the ESA) determines that a portion of the area is not being used as Bald Eagle nesting territories.</p> <p>Waiver: May be granted if Bald Eagles are de-listed and if USFWS and UDWR determine it is not necessary to protect nesting territories according to the Endangered Species Act and The Bald Eagle Protection Act or if there is no reasonable likelihood of site occupancy over a minimum 10 year period.</p>
<p>Federally Protected Species:</p> <p>Golden Eagle</p>	<p>Golden Eagle nest sites and territories</p> <p>12,902 acres</p>	CSU/TL	X	X	X	X	<p>No surface-disturbing activities will be allowed within a 0.5 miles radius of documented Golden Eagle nest sites within nesting territories from February 1 to July 15th or until fledgling and dispersal of young. Any access created by the action will be outside of nesting season and will be eliminated once action is complete.</p>

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Resource Of Concern	Applicable Area	Stipulation Code	Alternative				Stipulation Description
			A	B	PROPOSED PLAN	D	
							<p>Purpose: To protect Golden Eagle nest sites and nesting territories.</p> <p>Exception: An exception may be granted by the Field Manager if authorization is obtained from USFWS and UDWR. The Field Manager may also grant an exception if an environmental analysis indicates that the nature or the conduct of the actions, as proposed or conditioned, would not impair the primary constituent element determined necessary for the survival and recovery of the Golden Eagle.</p> <p>Modification: The Field Manager may modify the boundaries of the stipulation area if an environmental analysis indicates and USFWS and UDWR determine a portion of the area is not being used as Golden Eagle nesting territories.</p> <p>Waiver: A waiver may be granted if an individual Golden Eagle nest has been inactive (unoccupied) for at least a period of 3 years. Nest-monitoring data for a 3-year period would be required before the waiver could be granted.</p>
Special Status Species: Southwestern Willow Flycatcher	Southwestern Willow Flycatcher Habitat	CSU/TL	X	X	X	X	<p>In areas that contain riparian habitat within the range for the Southwestern willow flycatcher, actions would be avoided or restricted that may cause stress and disturbance during nesting and rearing of their young. 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, i.e., creation of a</p>

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			A	B	PROPOSED PLAN	D	
							<p>permanent structure. Current avoidance and minimization measures include the following:</p> <ol style="list-style-type: none"> 1. Surveys would 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. Activities would require monitoring throughout the duration of the project. To ensure desired results are being achieved, minimization measures would be evaluated and, if necessary, Section 7 consultation reinitiated. 3. Water production would 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. Activities would maintain a 300 feet buffer from suitable riparian habitat year long. 6. Activities within 0.25 mile of occupied breeding habitat would 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. Re-vegetate with native species all areas of surface disturbance within riparian areas and/or

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Resource Of Concern	Applicable Area	Stipulation Code	Alternative				Stipulation Description
			A	B	PROPOSED PLAN	D	
							<p>adjacent land.</p> <p>Additional measures to avoid or minimize effects to the species may be developed and implemented in consultation with the USFWS between the lease sale stage and lease development stage to ensure continued compliance with the ESA.</p> <p>Purpose: To protect southwestern willow flycatcher habitat.</p> <p>Exception: An exception may be granted by the Field Manager if authorization is obtained from USFWS (through applicable provisions of the ESA). The Field Manager may also grant an exception if an environmental analysis indicates that the nature of the conduct of the actions, as proposed or conditioned, would not impair the primary constituent element determined necessary for the survival and recovery of the southwestern willow flycatcher and USFWS concurs with this determination.</p> <p>Modification: The Field Manager may modify the boundaries of the stipulation area if an environmental analysis indicates, and USFWS (through applicable provisions of the ESA) determines that a portion of the area is not being used as southwestern willow flycatcher habitat.</p> <p>Waiver: May be granted if the southwestern willow flycatcher is de-listed and if USFWS determines it is not necessary for the survival and recovery of the southwestern willow flycatcher.</p>
Special Status Species: Yellow-billed Cuckoo	Yellow-billed Cuckoo Habitat	CSU/TL	X	X	X	X	<p>No surface-disturbing activities would be conducted within 100 meters of Yellow-billed Cuckoo habitat (riparian areas) from May 15th through July 20th.</p> <p>Purpose: To manage Yellow-billed Cuckoo habitat.</p>

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Resource Of Concern	Applicable Area	Stipulation Code	Alternative				Stipulation Description
			A	B	PROPOSED PLAN	D	
							<p>Exception: An exception may be granted by the Field Manager if authorization is obtained from USFWS (through applicable provisions of the ESA). The Field Manager may also grant an exception if an environmental analysis indicates that the nature of the conduct of the actions, as proposed or conditioned, would not impair the primary constituent element determined necessary for the survival and recovery of the Yellow-billed Cuckoo and USFWS concurs with this determination.</p> <p>Modification: The Field Manager may modify the boundaries of the stipulation area if an environmental analysis indicates, and USFWS (through applicable provisions of the ESA) determines that a portion of the area is not being used as Yellow-billed Cuckoo habitat.</p> <p>Waiver: May be granted if the Yellow-billed Cuckoo is de-listed and if USFWS determines it is not necessary for the survival and recovery of the Yellow-billed Cuckoo.</p>
Special Status Species–Sensitive Raptor Species: Ferruginous Hawk and Burrowing Owl	Raptor Habitat Ferruginous Hawk (158,928 acres) Burrowing Owl (1,652, 024 acres)	CSU/TL	X	X	X	X	<p>In habitat for raptor species, no surface disturbances or occupancy would be conducted during the breeding and nesting season (March 1 to August 31 for burrowing owl and March 1 – August 1 for ferruginous hawk) within spatial buffers (0.25 mile for burrowing owl and 0.5 mile for ferruginous hawk) of known nesting sites.</p> <p>Purpose: To protect raptor habitat.</p> <p>Exception: An exception would be granted if protocol surveys determine that nesting sites, breeding territories, and winter roosting areas are not occupied.</p> <p>Modification: The Field Manager may modify the</p>

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			A	B	PROPOSED PLAN	D	
							boundaries of the stipulation area if portions of the area do not include habitat or are outside the current defined area, as determined by the BLM. Waiver: May be granted if it is determined the habitat no longer exists or has been destroyed.
Special Status Species: Critical Habitat of the Endangered Colorado River Fishes	Colorado River, , Green River, , Colorado River and Dolores River, Confluence, and all associated back waters 48,513 acres	NSO	X	X	X	X	Surface-disturbing activities within the 100 year floodplain of the Colorado River, Green River, and at the Dolores/Colorado River confluence would not be allowed. Other avoidance and minimization measures include: <ul style="list-style-type: none"> • Surveys will be required prior to operations unless species occupancy and distribution information is complete and available. All surveys must be conducted by qualified individuals. • 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. • Water production will be managed to ensure maintenance or enhancement of riparian habitat. • Avoid loss or disturbance of riparian habitats. • Conduct watershed analysis for leases in designated critical habitat and overlapping major tributaries in order to determine toxicity risk from permanent facilities • Implement the Utah Oil and Gas Pipeline Crossing Guidance. • In areas adjacent to 100 year floodplains, particularly in systems prone to flash floods, analyze the risk for flash floods to impact facilities,

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			A	B	PROPOSED PLAN	D	
							<p>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.</p> <p>Purpose: To protect critical habitat of the endangered Colorado River fishes.</p> <p>Exception: An exception may be granted by the Field Manager if:</p> <p>1) There is no practical alternative, and 2) the development would enhance riparian/aquatic values. This exception would require consultation with the USFWS. The Field Manager may also grant an exception if an environmental analysis indicates that the nature or the conduct of the actions, as proposed or conditioned, would not impair the primary constituent element determined necessary for the survival and recovery of the Endangered Colorado River , fishes.</p> <p>Modification: The Field Manager may modify the boundaries of the stipulation area if an environmental analysis indicates, and USFWS (through applicable provisions of the ESA) determines a portion of the area is not being used as Critical Habitat.</p> <p>Waiver: A waiver may be granted if the Endangered Colorado River Fishes are de-listed and the Critical Habitat is determined by USFWS as not necessary for the survival and recovery of the Endangered Colorado River fishes.</p>
Special Status Species: Kit Fox	Kit Fox Habitat	CSU	X	X	X	X	<p>In Kit Fox habitat, allow no surface disturbances within 200 meters of a kit fox den.</p> <p>Purpose: To protect Kit Fox habitat.</p>

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Resource Of Concern	Applicable Area	Stipulation Code	Alternative				Stipulation Description
			A	B	PROPOSED PLAN	D	
							<p>Exception: An exception would be granted if protocol surveys determine that Kit Fox dens are not present.</p> <p>Modification: The Field Manager may modify the stipulation area if portions of the area do not contain habitat.</p> <p>Waiver: A waiver may be granted if it is determined that the habitat no longer exists.</p>
Special Status Species: California Condor	California Condor Potential Habitat	CSU/TL	X	X	X	X	<p>Avoidance or use restrictions may be placed on portions on areas known or suspected to be used by condors. Application of appropriate measures will depend on whether the action is temporary or permanent, and whether it occurs within or outside potential habitat. A temporary action is completed prior to the following important season of use, leaving for habitat functionality. A permanent action continues for more than one season of habitat use, and/or causes a loss of condor habitat function or displaces condors through continued disturbance (i.e. creation of a permanent structure requiring repetitious maintenance, or emits disruptive levels of noise).</p> <p>Current avoidance and minimization measures 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) approved by the BLM, and must be conducted according to approved protocol.</p> <p>If surveys result in positive identification of condor use, all lease activities will require monitoring throughout the duration of the project to ensure desired results of applied mitigation and protection. Minimization</p>

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			A	B	PROPOSED PLAN	D	
							<p>measures will be evaluated during development and, if necessary, Section 7 consultation may be reinitiated.</p> <p>Temporary activities within 1.0 mile of nest sites will not occur during the breeding season.</p> <p>Temporary activities within 0.5 miles of established roosting sites or areas will not occur during the season of use, August 1 to November 31, unless the area has been surveyed according to protocol and determined to be unoccupied.</p> <p>No permanent infrastructure will be placed within 1.0 mile of nest sites.</p> <p>No permanent infrastructure will be placed within 0.5 miles of established roosting sites or areas.</p> <p>Remove big game carrion to 100 feet from on lease roadways occurring within foraging range.</p> <p>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.</p> <p>Reinitiation of section 7 consultation with the Service will be sought immediately if mortality or disturbance to California condors is anticipated as a result of project activities. 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 U.S. Fish and Wildlife Service to ensure continued compliance with the ESA.</p> <p>Additional measures may also be employed to avoid</p>

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			A	B	PROPOSED PLAN	D	
							or minimize effects to the species between the lease sale and lease development stages. 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.
Jones cycladenia (<i>C. humilis</i> var. <i>jonesii</i>)	Potential, suitable, and occupied habitat	TL/CSU	X	X	X	X	<p>Potential, suitable, and occupied habitat are defined as follows:</p> <p><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><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 clay reed-mustard; habitat descriptions can be found in Federal Register Notice and species recovery plan links at <http://www.fws.gov/endangered/wildlife.html>.</p> <p><i>Occupied habitat</i> is defined as areas currently or historically known to support clay reed-mustard; synonymous with "known habitat."</p> <p>Current avoidance and minimization measures include the following:</p> <ol style="list-style-type: none"> 1. Pre-project habitat assessments will be completed across 100% of the project disturbance area within potential habitat prior to any ground disturbing activities to determine if suitable Jones cycladenia habitat is present. 2. Site inventories will be conducted within suitable

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							<p>habitat to determine occupancy. Where standard surveys are technically infeasible and otherwise hazardous due to topography, slope, etc., suitable habitat will be assessed and mapped for avoidance (hereafter, "avoidance areas"); in such cases, in general, 300' buffers will be maintained between surface disturbance and avoidance areas. However, site specific distances will need to be approved by FWS and BLM when disturbance will occur upslope of habitat. Where conditions allow, inventories:</p> <p>a. Must be conducted by qualified individual(s) and according to BLM and Service accepted survey protocols,</p> <p>b. Will be conducted in suitable and occupied habitat for all areas proposed for surface disturbance prior to initiation of project activities and within the same growing season, at a time when the plant can be detected (usually May 15st to June 30th, however, surveyors should verify that the plant is flowering by contacting a BLM or FWS botanist or demonstrating that the nearest known population is in flower),</p> <p>c. Will occur within 300' from the centerline of the proposed right-of-way for surface pipelines or roads; and within 300' from the perimeter of disturbance for the proposed well pad including the well pad,</p> <p>d. Will include, but not be limited to, plant species lists and habitat characteristics, and</p> <p>e. Will be valid until May 1st the following year.</p> <p>3. Design project infrastructure to minimize impacts within suitable habitat:</p> <p>a. Where standard surveys are technically infeasible, infrastructure and activities will avoid all suitable</p>

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							habitat (avoidance areas) and incorporate 300' buffers, in general; however, site specific distances will need to be approved by FWS and BLM when disturbance will occur upslope of habitat, b. Reduce well pad size to the minimum needed, without compromising safety, c. Where technically and economically feasible, use directional drilling or multiple wells from the same pad, d. Limit new access routes created by the project, e. Roads and utilities should share common right-of-ways where possible, f. Reduce the width of right-of-ways and minimize the depth of excavation needed for the road bed; where feasible, use the natural ground surface for the road within habitat, g. Place signing to limit off-road travel in sensitive areas, and h. Stay on designated routes and other cleared/approved areas. i. All disturbed areas will be revegetated with native species comprised of species indigenous to the area and non-native species that are not likely to invade other areas. 4. Within occupied habitat, project infrastructure will be designed to avoid direct disturbance and minimize indirect impacts to populations and to individual plants: a. Follow the above recommendations (#3) for project design within suitable habitats, b. To avoid water flow and/or sedimentation into occupied habitat and avoidance areas, silt fences, hay

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							<p>bales, and similar structures or practices will be incorporated into the project design; appropriate placement of fill is encouraged.</p> <p>d. Construction of roads will occur such that the edge of the right of way is at least 300' from any plant and 300' from avoidance areas,</p> <p>e. Roads will be graveled within occupied habitat; the operator is encouraged to apply water for dust abatement to such areas from May 15th to June 30th (flowering period); dust abatement applications will be comprised of water only,</p> <p>f. The edge of the well pad should be located at least 300' away from plants and avoidance areas, in general; however, site specific distances will need to be approved by FWS and BLM when disturbance will occur upslope of habitat,</p> <p>g. Surface pipelines will be laid such that a 300' buffer exists between the edge of the right of way and plants and 300' between the edge of right of way and avoidance areas; use stabilizing and anchoring techniques when the pipeline crosses suitable habitat to ensure pipelines don't move towards the population; site specific distances will need to be approved by FWS and BLM when disturbance will occur upslope of habitat,</p> <p>h. Construction activities will not occur from May 15th through June 30th within occupied habitat,</p> <p>i. Before and during construction, areas for avoidance should be visually identifiable in the field, e.g., flagging, temporary fencing, rebar, etc.,</p> <p>j. Place produced oil, water, or condensate tanks in centralized locations, away from occupied habitat, and</p>

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							<p>k. 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>5. Occupied Jones cycladenia habitats within 300' of the edge of the surface pipelines' right of ways, 300' of the edge of the roads' right of ways, and 300' 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. Annual reports shall be provided to the BLM and the Service. 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 BLM and the Service.</p> <p>6. Reinitiation of section 7 consultation with the Service will be sought immediately if any loss of plants or occupied habitat for the Jones cycladenia is anticipated as a result of project activities. 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 U.S. Fish and Wildlife Service to ensure continued compliance with the ESA.</p>