

Appendix 1. Structural Improvements

Project Name	Location	Description of Work
<i>Common to All Alternatives</i>		
Fence Salvage	Allotment (Map 4)	Remove and salvage four miles of abandoned barb wire fence. Barb wire would be hand rolled, wood posts would either be pulled or cut off at ground level, and steel posts would be removed by hand.
<i>Common to Alternatives A (No Action), C (Manage Livestock Grazing with Allowable Use Levels) &amp; D (Manage Livestock with Allowable Use Levels/Greater Sage-Grouse Management Unit)</i>		
Kyle Reservoir	T24N, R23E, Section 10, NWSE (Map 4)	A 1 to 2 acre foot stock water reservoir constructed during the 1960's. Access to the site is by a BLM road open from April 1st to August 31st. Fill in a headcut in the embankment and recontour the trail dike. Work would be accomplished by the grazing permittee. Total disturbance is about 2 acres.
Gumbo Reservoir (Cow Creek WSA)	T24N, R23E, Section 32, SESE (Map 4)	A 3 to 5 acre foot stock water reservoir constructed in 1949. Access to the site is by county road. Repair headcut in spillway, remove and replace overflow pipe and restore top of embankment to original width. Work would be accomplished by contract. Total disturbance is about 3 acres.
Reserve Reservoir (Cow Creek WSA)	T24N, R22E, Section 14, NESE (Map 4)	A 1 to 3 acre foot stock water reservoir constructed in 1971. Access to the site is by a closed BLM road, ¼ mile in length. Restore top of embankment to original width to prevent erosion. Work would be accomplished by contract. Total disturbance is about 2 acres.
June Reservoir (Cow Creek WSA)	T24N, R22E, Section 14, SESW (Map 4)	A 1 to 3 acre foot stock water reservoir constructed in 1971. Access to the site is by a closed BLM road, ¼ mile in length. Restore top of embankment to original width to prevent erosion. Work would be accomplished by contract. Total disturbance is about 2 acres.
Roy Reservoir	T24N, R24E, Section 30, SESE (Map 4)	A 1 to 3 acre foot stock water reservoir constructed in 1942. Access to the site is by an open BLM road. Restore top of embankment to original width to prevent erosion and raise embankment to offset loss of storage from accumulation of silt. Work would be accomplished by contract. Total disturbance is about 2 acres.
Williams Reservoir	T23N, R23E, Section 11, SWNW (Map 4)	A 6 to 8 acre foot stock water reservoir constructed in 1952. Access to the site is by a closed BLM road, ½ mile in length. Widen top of embankment to prevent erosion and repair spillway headcut. Work would be accomplished by contract. Total disturbance is about 3 acres.
Bull Creek Reservoir	T24N, R23E, Section 15, SWNE (Map 4)	A 2 to 3 acre foot stock water reservoir constructed in 1962. Access to the site is by a BLM road open from April 1st to August 31st. Fill in a headcut in the embankment. Work would be accomplished by the grazing permittee. Less than 1 acre would be disturbed.
Stogie Spring Development (Cow Creek WSA)	T24N, R23E, Section 29, NSW (Map 4)	The spring was constructed prior to 1976 and reconstructed in 1982. The spring box and stock tank have deteriorated and need to be replaced. Access to the site is by a BLM road open from April 1st to November 30th. Improvements to the road are not needed and would not be authorized. A 25' by 25' wooden post and pole fence would be constructed around the spring box to protect the water source. Work would be accomplished by the grazing permittees. Less than 1 acre would be disturbed.

<i>Common to Alternative B (No Grazing) &amp; Alternative D (Manage Livestock with Allowable Use Levels/Greater Sage-Grouse Unit)</i>		
Duval Creek Fence	T24N, R24E Section 1 T23N, R23E Sections 1, 12 and 13 (Map 5)	Remove and salvage a 4-strand barb wire fence 3.2 miles in length. The wire would be rolled and the steel posts pulled and removed from the project area. All wood posts would be pulled or cut off at ground level and removed from the project area. Access would be limited to foot or ATV. Vehicles used for hauling materials from the site would be limited to existing resource roads. Blading and mechanical line clearing would not be authorized.
<i>Alternative B (No Grazing)</i>		
Allotment Boundary Fence Maintenance	Allotment (Map 5)	BLM would maintain 28.5 miles of fence, either bordering or located on public land, serving as the allotment boundary.
Shane Spring, Stogie Spring (Cow Creek WSA), Bull Creek Spring & Mud Spring	Allotment (Map 5)	Reclamation would involve removing the posts and planks from around the stock tank, removing the stock tank and plumbing, removing any fence enclosing the spring source, redirecting the water to its natural channel, recontouring the site and applying a mixture of native seed.
Stock Water Reservoirs	Allotment (Map 5)	BLM would abandon 27 manmade, earthen dam, stock water reservoirs. The abandoned reservoirs would not be reclaimed and only repaired if structural problems develop affecting dam safety (headcutting, breached).
Stock Water Pipeline	Allotment (Map 5)	Four stock tanks and any above ground pipe (hydrant/air vent) would be removed, the site recontoured and a mixture of native seed applied to revegetate the disturbed area.
<i>Common to Alternatives C (Manage Livestock Grazing with Allowable Use Levels) &amp; D (Manage Livestock with Allowable Use Levels/Greater Sage-Grouse Management Unit)</i>		
Schwenke Pipeline Extension	T24N, R23E, Sections 32 and 33; T23N, R23E, Sections 5, 6, 8, 17 and 18; T23N, R22E, Sections 10, 11, 12, 13 and 14 (Map 6)	The existing pipeline would be extended 7.2 miles on public land. Six 10 foot diameter stock tanks would be installed. The project would be designed and funded by the Natural Resources Conservation Service (NRCS). Two inch diameter flexible HDPE pipe would be ripped in to a depth of 5 to 6 feet following the centerline of existing BLM roads. Where the route follows the Bull Creek Road (county road), the pipeline would be ripped in within the right-of-way, either along the edge of the road or in the borrow ditch. Total disturbance is about 11 acres.
<i>Alternative D (Manage Livestock with Allowable Use Levels/Greater Sage-Grouse Management Unit)</i>		
Sage Grouse Management Unit	T23N, R23E, Sections 4, 9, 15, 16, 22 and 23 (Map 7)	Install 4.6 miles of permanent 3-strand barb wire or electric fence. Either type of fence would be constructed to BLM standards in areas with greater sage-grouse, pronghorn antelope, elk and mule deer. Vehicles used for hauling materials to the site would be limited to existing resource roads. Access to remote areas for installation would be limited to foot or ATV. Blading, mechanical line clearing and other surface disturbing activities, such as tree and brush removal, would not be authorized.