

Casey Matozevich

Subject: FW: updated CPW BMP recommendations for Dry Sage 1-23, Dry Sage 1-21

From: Clark, Brenda L SEPCO-UAS/E/USON

Sent: Friday, June 01, 2012 10:29 AM

To: Baldrige, Anne SEPCO-EPW; Newville, Toni E SEPCO-UAO/W/D; Penn, Brad G SEPCO-UAX/C/OU; Posey, Harry H SIEP-PTI/UO

Cc: Compton, C Steven SEPCO-UAS/E/USON; Roger Miller; Miller, Roger SEPCO-UAX/C/OU; Holman, Matthew L SEPCO-UAX/O/UL

Subject: FW: updated CPW BMP recommendations for Dry Sage 1-23, Dry Sage 1-21

FYI – have obtained BLM concurrence with CPW wildlife BMPs for the two Dry Sage locations. Done deal – Anne can proceed with finalizing the APDs for both.

Thanks!

Brenda

From: Clark, Brenda L SEPCO-UAS/E/USON

Sent: Friday, June 01, 2012 11:26 AM

To: 'Wiser, Shawna D'; jacob.davidson@state.co.us

Cc: michael.warren@state.co.us; dave.kubeczko@state.co.us; Baldrige, Anne SEPCO-EPW; Ausmus, Desa M

Subject: RE: updated CPW BMP recommendations for Dry Sage 1-23, Dry Sage 1-21

Thanks Shawn! Appreciate the quick response – just wanted to make absolutely sure everyone was on the same page.

Have a great weekend!

Brenda

From: Wiser, Shawna D [\[mailto:swiser@blm.gov\]](mailto:swiser@blm.gov)

Sent: Friday, June 01, 2012 11:24 AM

To: Clark, Brenda L SEPCO-UAS/E/USON; jacob.davidson@state.co.us

Cc: michael.warren@state.co.us; dave.kubeczko@state.co.us; Baldrige, Anne SEPCO-EPW; Ausmus, Desa M

Subject: RE: updated CPW BMP recommendations for Dry Sage 1-23, Dry Sage 1-21

Greetings Brenda-

These timing limitations were agreed to at the onsite and the BLM will attach them as conditions of approval to the APD.

Thanks-

Shawn Wiser

Natural Resource Specialist

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From: brenda.l.clark@shell.com [mailto:brenda.l.clark@shell.com]
Sent: Friday, June 01, 2012 10:02 AM
To: Jacob.Davidson@state.co.us; Wiser, Shawna D
Cc: Michael.Warren@state.co.us; Dave.Kubeczko@state.co.us; A.Baldrige@shell.com
Subject: RE: updated CPW BMP recommendations for Dry Sage 1-23, Dry Sage 1-21

Hi Jacob,

Thanks much for working with us on finalizing the BMP's for these two locations. Shell concurs with the proposed BMPs for these two locations as listed below.

Shawna – would you please advise as to BLM's agreement with these BMPs as well?

Have a great weekend all!

Brenda L. Clark, P.E. , BCEE, CHMM
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From: Davidson, Jacob [mailto:Jacob.Davidson@state.co.us]
Sent: Friday, June 01, 2012 10:58 AM
To: Clark, Brenda L SEPCO-UAS/E/USON
Cc: Warren, Michael; Kubeczko, Dave
Subject: updated CPW BMP recommendations for Dry Sage 1-23, Dry Sage 1-21

Hello Brenda,

Below are CPWs updated recommended Best Management Practices for 2 proposed Shell/Swepi well pad locations: Dry Sage 1-23 and Dry Sage 1-21. As per our phone conversation, Columbian sharp-tailed grouse timing restrictions recommendations have been removed from Dry Sage 1-23 location, sound measurements have been modified to be taken 30 feet from the edge of the well pad (for both locations), and 3 additional recommendations have been added to Dry Sage 1-21.

Proposed Pad: Dry Sage 1-23 Located in section 23, 12N, 90W at 40.978369, -107.465278

Wildlife concerns: Location is within mapped greater sage-grouse production area (1.87 miles from Fan Rock Lek), greater sage-grouse Preliminary Priority Habitat, Mule Deer Critical Winter Range, and Elk Winter Concentration Area.

Recommended BMPs:

1. Where oil and gas activities must occur near active Mule Deer Critical Winter Range, conduct these activities outside the time period from December 1 through April 15.
2. Where oil and gas activities must occur within 4 miles of active greater sage-grouse leks or within other mapped greater sage-grouse breeding or summer habitat, conduct these activities outside the time period from March 1 through June 30.
3. Restrict post-development well site visitations to between the hours of 9:00 a.m. and 4:00 p.m. from December 1 to June 1 for Mule Deer Critical Winter Range, and greater sage-grouse lekking season.
4. Muffle or otherwise control exhaust noise from pump jacks and compressors so that operational noise will not exceed 49 dB measured at 30 feet from the edge of the well pad.
5. Reclaim/restore greater sage-grouse habitats with native grasses and forbs conducive to optimal grouse habitat and other wildlife appropriate to the ecological site. Reclamation of production habitat should include a substantially higher percentage of forbs than other areas. CPW agreed to assist the Esyps (landowners) with reclamation seed mixes.
6. Gate single-purpose roads and restrict general public access to reduce traffic disruptions to wildlife.
7. Close and immediately reclaim all roads that are redundant, not used regularly, or have been abandoned to the maximum extent possible to minimize disturbance and habitat fragmentation.
8. Install and utilize bear-proof dumpsters and trash receptacles for all food-related trash on location following COGCC Rule 1204 a-1.
9. Shell will encourage car pooling to the work site
10. Shell will inform and hold accountable employees and contractors of their no pets, no firearms, no trash policies.
11. Shell will use a closed loop drilling system with tanks and no pits.

Proposed Pad: Dry Sage 1-21, Located in section 21, 12N, 90W at 40.981833, -107.494264

Wildlife concerns: Location is within mapped greater sage-grouse production area (1.09 miles from Serviceberry Lek), greater sage-grouse Preliminary Priority Habitat, 1.42 miles from Columbian sharp-tailed grouse Serviceberry Mt Lek, Mule Deer Critical Winter Range, and Elk Winter Concentration Area.

Recommended BMPs:

1. Where oil and gas activities must occur near active Mule Deer Critical Winter Range, conduct these activities outside the time period from December 1 through April 15.
2. Where oil and gas activities must occur within 4 miles of active greater sage-grouse leks or within other mapped greater sage-grouse breeding or summer habitat, conduct these activities outside the time period from March 1 through June 30.
3. Restrict post-development well site visitations to between the hours of 9:00 a.m. and 4:00 p.m. from December 1 to March 15 for Mule Deer Critical Winter Range and greater sage-grouse lekking season.
4. Muffle or otherwise control exhaust noise from pump jacks and compressors so that operational noise will not exceed 49 dB measured at 30 from the edge of the well pad.
5. Reclaim/restore greater sage-grouse habitats with native grasses and forbs conducive to optimal grouse habitat and other wildlife appropriate to the ecological site. Reclamation of production habitat should include a substantially higher percentage of forbs than other areas. CPW can assist reclamation efforts with recommended seed mixes, if request.
6. Gate single-purpose roads and restrict general public access to reduce traffic disruptions to wildlife.
7. Close and immediately reclaim all roads that are redundant, not used regularly, or have been abandoned to the maximum extent possible to minimize disturbance and habitat fragmentation.
8. Install and utilize bear-proof dumpsters and trash receptacles for all food-related trash on location following COGCC Rule 1204 a-1.

9. Shell will encourage car pooling to the work site
10. Shell will inform and hold accountable employees and contractors of their no pets, no firearms, no trash policies.
11. Shell will use a closed loop drilling system with tanks and no pits.

Thank you for working with us in these matters.

Jacob Davidson

Land Use Specialist
Colorado Parks and Wildlife
Meeker, Colorado

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