

## Kubeczko, Dave

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**From:** Kubeczko, Dave  
**Sent:** Thursday, June 14, 2012 2:47 PM  
**To:** Kubeczko, Dave  
**Subject:** FW: CPW recommended BMPs for Dry Sage 1-21, Dry Sage 1-23, and Hamilton 1-29

Scan No 2034412

CPW CORRESPONDENCE and PROPOSED BMPs

2A#2237008

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**From:** Davidson, Jacob  
**Sent:** Friday, June 08, 2012 4:12 PM  
**To:** [brenda.l.clark@shell.com](mailto:brenda.l.clark@shell.com)  
**Cc:** Warren, Michael; Kubeczko, Dave  
**Subject:** RE: CPW recommended BMPs for Dry Sage 1-21, Dry Sage 1-23, and Hamilton 1-29

CPW comments and BMPs are now entered into eForms for Hamilton 1-29.  
Have a good weekend,  
Jacob

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**From:** [brenda.l.clark@shell.com](mailto:brenda.l.clark@shell.com) [<mailto:brenda.l.clark@shell.com>]  
**Sent:** Thursday, May 31, 2012 1:43 PM  
**To:** Davidson, Jacob; Kubeczko, Dave  
**Cc:** Warren, Michael; [swiser@blm.gov](mailto:swiser@blm.gov)  
**Subject:** RE: CPW recommended BMPs for Dry Sage 1-21, Dry Sage 1-23, and Hamilton 1-29

Hi Jacob,

Wanted to follow up on your note below with regard to the proposed BMPs for our Hamilton 1-29 location. Shell concurs with the BMPs as recommended for the Hamilton location.

I did leave you a voice mail message about the BMPs proposed for the two Dry Sage locations – would like to discuss further as soon as possible.

Thanks!

Brenda L. Clark, P.E. , BCEE, CHMM  
Senior Environmental Engineer - US Onshore Exploration  
US OG/HO Regulatory and Environmental Team  
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**From:** Davidson, Jacob [<mailto:Jacob.Davidson@state.co.us>]  
**Sent:** Tuesday, May 15, 2012 1:13 PM  
**To:** Clark, Brenda L SEPCO-UAS/E/USON; Kubeczko, Dave

**Cc:** Warren, Michael; Wiser, Shawna D

**Subject:** CPW recommended BMPs for Dry Sage 1-21, Dry Sage 1-23, and Hamilton 1-29

Hello Brenda,

I am writing to communicate CPWs recommended Best Management Practices for 3 proposed Shell/Swept well pad locations: Dry Sage 1-23, Dry Sage 1-21, and Hamilton 1-29. Mike Bergstrom (Shell), Jeff Winstead (Hayden Wing & associates), Michael Warren (CPW), and I visited the sites on May 1, 2012, and have generated these recommendation from our discussions, field notes, and biologists input. Shawn Weiser (BLM) was also in attendance at the Dry Sage 1-23 location.

**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, 1.15 miles from Columbian sharp-tailed grouse Putt Creek 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. Where oil and gas activities must occur within 1.25 miles of Columbian sharp-tailed grouse leks, conduct these activities outside the period between March 15 and July 30. This pad location is approximately 1.15 miles from the Putt Creek Lek.
4. 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, greater sage-grouse lekking season, and Columbian sharp-tailed grouse lekking season.
5. 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 source.
6. Reclaim/restore Columbian sharp-tailed grouse and 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.
7. Gate single-purpose roads and restrict general public access to reduce traffic disruptions to wildlife.
8. 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.
9. Install and utilize bear-proof dumpsters and trash receptacles for all food-related trash on location following COGCC Rule 1204 a-1.
10. Shell will encourage car pooling to the work site
11. Shell will inform and hold accountable employees and contractors of their no pets, no firearms, no trash policies.
12. 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 feet from the source.
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.

**Proposed Pad: Hamilton 1-29, Located in section 29, 5N, 91W at 40.354367, -107.621669**

Wildlife concerns: Location is within mapped Columbian sharp-tailed grouse production area (1.7 miles from Mead Ranch Lek), Mule Deer Critical Winter Range, and Elk Winter Concentration Area. Location is also within Golden Eagle Active Nest Site Sensitive Wildlife Habitat, but given the proximity to the road, CPW will not recommend any timing restrictions based on Golden Eagles.

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. Restrict post-development well site visitations to between the hours of 9:00 a.m. and 4:00 p.m. from December 1 to April 15 for Mule Deer Critical Winter Range and Elk Winter Concentration Area.
3. Install and utilize bear-proof dumpsters and trash receptacles for all food-related trash on location following COGCC Rule 1204 a-1.
4. Reclamation will match existing vegetation per landowners request.

CPW would appreciate your concurrence with the proposed BMPs. Please let me know if you have any questions.

Thank you,

**Jacob Davidson**

Land Use Specialist

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Meeker, Colorado  
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