

Krista Anderson

From: Warren, Michael [Michael.Warren@state.co.us]
Sent: Monday, July 11, 2011 9:59 AM
To: Aleta A. Brown
Cc: Krista Anderson; Kubeczko, Dave
Subject: RE: BMPs at the Shell Gnat Hill Location

Aleta,

The BMPs you have listed below are the BMPs CDOW requests for this site; they are appropriate for the site and wildlife species affected by development and production activity.

Final determination of ingress and egress route will be made by operator and Routt County Officials. CDOW does not request any other BMPs for this site.

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From: Aleta A. Brown [<mailto:abrown@norwestcorp.com>]
Sent: Monday, July 11, 2011 9:49 AM
To: Warren, Michael
Cc: Krista Anderson
Subject: BMPs at the Shell Gnat Hill Location

Michael, Per your site visit with Shell on June 21, 2011, below are the BMPs proposed by CDOW for the Gnat Hill 1-29 location. We would appreciate it if you could send a quick email back confirming that these BMPs are satisfactory. We will include this email with our Form 2a application.

Gnat Hill Location NESE, S29, T6N, R89W 40.4454626 -107.3930563 Routt County

Wildlife concern – COGCC mapped Greater sage-grouse production area, sharp-tailed production area, and elk winter concentration area (sensitive wildlife habitats).

CDOW recommendations and concerns – as agreed to by the operator and CDOW.

- 1) Pad construction and drilling will occur outside of the greater sage-grouse and sharp-tailed breeding and nesting period (March 1 – July 30).
- 2) Shell agrees to conduct drilling activities –re entry for additional wells outside the period of March 1 to July 30.
- 3) Conduct post-development well site visitations to between the hours of 10:00 a.m. and 3:00 p.m. and reduce well site visitations between March 1 and July 30.
- 4) Shell will use hospital grade mufflers for compressors, pump jacks or other motors necessary to run operations at the site as applicable – if compressors, pump jacks, etc. are necessary. Mufflers will be pointed upward to dissipate potential vibration.
- 5) Conduct post-development well site visitations to between the hours of 10:00 a.m. and 3:00 p.m. and reduce well site visitations between December 1 and April 15 in elk winter concentration areas.
- 6) CDOW is open to the idea of flexibility/amending the elk winter concentration timing stipulations in order to protect sage and sharp-tailed grouse habitat and lekking activities. On-going and future discussions between CDOW and Shell will be necessary to determine if the elk timing stipulation can be amended for this site.

- 7) Ingress, egress and all oil and gas traffic for this site will be taken from Moffat County Road 394 on to Routt County Road 65 to the pad.
- 8) The scheduled time for drilling this well is still undetermined.

Please let me, or Krista know if you have any questions or concerns.

Thanks!

Aleta A Brown
Environmental Specialist

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