

Kubeczko, Dave

From: Kubeczko, Dave
Sent: Tuesday, November 01, 2011 5:32 PM
To: Kubeczko, Dave
Subject: EOG Resources Inc, Indian Creek 01-05H, SWSE Sec 5 T6N R78W, Jackson County, Form 2A (#400200094) CDPW BMPs

Categories: Orange - Operator Correspondence

Scan No 2034055

CDPW CORRESPONDENCE and PROPOSED BMPs

2A#400200094

From: Kaylene_Gardner@eogresources.com [mailto:Kaylene_Gardner@eogresources.com]
Sent: Tuesday, November 01, 2011 4:50 PM
To: Kubeczko, Dave
Subject: Fw: Peterson Ridge 1-20H, Indian Creek 1-05H and MacFarlane 1-36H

Dave - Sorry I had the incorrect email in the first email.

Thanks,

Kaylene R. Gardner | Sr. Regulatory Specialist | EOG Resources, Inc. | 435-781-9111 (Office) | 435-621-9099 (Cell) | kaylene_gardner@eogresources.com

----- Forwarded by Kaylene Gardner/EOGResources on 11/01/2011 04:48 PM -----

From: Kaylene Gardner/EOGResources
To: "Warren, Michael" <Michael.Warren@state.co.us>, dave.kubeczko@state.co
Cc: Jennifer_Yu@eogresources.com, "Haskins, James" <jim.haskins@state.co.us>, "Dilley, Josh" <Josh.Dilley@state.co.us>, Kelly_Hodgson@blm.gov, "Rossi, Liza" <Liza.Rossi@state.co.us>, "Megan McGuire" <megan_mcguire@co.blm.gov>, "Warren, Michael" <Michael.Warren@state.co.us>, Robert_Wilkins@eogresources.com
Date: 11/01/2011 04:48 PM
Subject: RE: Peterson Ridge 1-20H, Indian Creek 1-05H and MacFarlane 1-36H

Michael - Attached please find EOGs proposed agreed upon COAs for the Macfarlane 1-36H, Indian Creek 1-05H, and Peterson Ridge 1-20H. Please give me a call if you have any additional questions or concerns.

- EOG will use a closed loop system during drilling operations for all three locations. The closed loop system will include 1-cuttings pit, and 4-6 400-bbl tanks.
- If the well is a producing location, EOG will install mufflers on production equipment reducing noise levels in accordance with COGCC Rules and Regulations.
- In accordance with EOGs Safety Rules and Regulations all company employees must complete a Smith Driving System Training class.
- EOG company policies prohibit the use or carrying of firearms in company offices and in company vehicles.
- Interim reclamation will be completed after completion activities or as early as possible to take advantage or available ground moisture.
- EOG will use a seed mix approved by the authorized officer for all reclamation activities.
- EOG agrees to conduct drilling and completion activities in accordance with COAs as established by Bureau of Land Management on Indian Creek 1-05H and Peterson Ridge 1-20H.
- EOG will restrict drilling and completion operations on the MacFarlane 1-36H from March 1 through June 30 due to Sage Grouse nesting.
- EOG agrees to restrict daily operations during Sage Grouse nesting from 9:00 a.m. – 4:00 p.m. on the MacFarlane 1-36H.

Thanks,

Kaylene

From: "Warren, Michael" <Michael.Warren@state.co.us>
To: "Rossi, Liza" <Liza.Rossi@state.co.us>, <Jennifer_Yu@eogresources.com>, <Kelly_Hodgson@blm.gov>
Cc: <Robert_Wilkins@eogresources.com>, <Kaylene_Gardner@eogresources.com>, "Megan McGuire" <megan_mcguire@co.blm.gov>, "Haskins, James" <jim.haskins@state.co.us>, "Dilley, Josh" <Josh.Dilley@state.co.us>, "Warren, Michael" <Michael.Warren@state.co.us>
Date: 10/06/2011 03:56 PM
Subject: RE: Peterson Ridge 1-20H, Indian Creek 1-05H and MacFarlane 1-36H onsite notes

Thanks Liza.

I will work with you, EOG and BLM to finalize a list of BMPs for each of these sites.

M

Michael Warren
Land Use Specialist
Colorado Parks & Wildlife
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(W) 970-255-6180
(F) 970-255-6111

From: Rossi, Liza

Sent: Thursday, October 06, 2011 3:41 PM

To: Jennifer_Yu@eogresources.com; Kelly_Hodgson@blm.gov

Cc: Robert_Wilkins@eogresources.com; Kaylene_Gardner@eogresources.com; 'Megan McGuire'; Warren, Michael; Haskins, James; Dilley, Josh

Subject: RE: Peterson Ridge 1-20H, Indian Creek 1-05H and MacFarlane 1-36H onsite notes

Jennifer,

I have included a few more notes from our discussions. These discussions occurred at the well sites as well as in the vehicle. I also made one small note on the Indian Creek well notes below. Megan McGuire of the BLM will have to verify. The notes below are draft notes and not final BMP recommendations from Colorado Parks and Wildlife (CPW). Michael Warren (CPW) will be working with EOG to pull together a final list of BMPs for the COGCC permit. I understand that you will have to run some of these ideas through others at EOG.

- 1) EOG said that all three wells would be closed loop systems and would only have a cuttings pit during the drilling phase.
- 2) EOG said that they would not have compressors. They will be flaring the gas and they have small generators and electric motors, which do not generate a lot of noise. CPW generally makes the following recommendation for noise in sage-grouse breeding areas. If well is a producer, muffle or otherwise control exhaust noise from pump jacks and compressors using sound walls, insulated buildings, or other structures/configurations designed to reduce noise so that noise will not exceed 49db measured at 30 feet from the source. This recommendation would apply to MacFarlane 1-36H and Indian Creek 1-05H.
- 3) EOG has company policies to minimize wildlife mortality from vehicle collisions.
- 4) EOG has company policies that prohibit firearms and pets on site.
- 5) EOG has generally has company policies that restrict general public access to single purpose roads to reduce traffic disruptions to wildlife. EOG will work with BLM and State Land Board (SLB) on issues relating to increased public use of improved roads.
- 6) EOG will complete interim reclamation as soon as possible.
- 7) We discussed the possibility of using technology such as mats to protect existing vegetation and topsoil. Mats will reduce the overall footprint and reduce the amount of reclamation necessary. CPW will recommend that EOG employ state-of-the-art technology to protect existing vegetation (e.g. use mats to preserve topsoil and vegetation root stock). CPW will also recommend that EOG brush beat or mow existing vegetation and leave root stock at the well pad location.

- 8) EOG will use a native seed mix provided from the BLM to reclaim the BLM sites. The reclamation will include restoring sagebrush.
- 9) CPW also recommends restoring sagebrush and a native understory on the MacFarlane 1-36H site on SLB. Aggressive non-native grasses should be avoided in sage-grouse habitat reclamation.
- 10) All three well sites are within greater sage-grouse breeding and nesting habitat (within 4 miles of active lek site). EOG agrees to conduct drilling activities outside of the breeding and nesting period (March 1 – June 30). EOG also agrees to conduct drilling activities for reentry for future wells outside of the period of March 1 – June 30.
- 11) Where traffic will pass by greater sage-grouse leks, EOG agrees to schedule and conduct daily operations between 9:00 A.M. and 4:00 P.M. This would apply to the MacFarlane 1-36H site and potentially the Indian Creek 1-05H site, depending on access route.
- 12) Very little infrastructure exists at the Indian Creek 1-05H and MacFarlane 1-36H sites. CPW recommends installing raptor perch deterrents on infrastructure.
- 13) If the MacFarlane well turns out to be productive, Liza brought up the idea of piping oil and water to the country road rather than making daily trips through the important wildlife habitat in the MacFarlane area.

I have attached the map showing the RSO areas in the MacFarlane area. These are the RSO areas included in 1298 mapping.

Sincerely,
Liza Rossi

Liza G. Rossi
Wildlife Conservation Biologist
Colorado Parks and Wildlife
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Steamboat Springs, CO 80487
970-871-2861

From: Jennifer_Yu@eogresources.com [mailto:Jennifer_Yu@eogresources.com]
Sent: Wednesday, October 05, 2011 4:11 PM
To: Kelly_Hodgson@blm.gov
Cc: Robert_Wilkins@eogresources.com; Kaylene_Gardner@eogresources.com; Rossi, Liza
Subject: Peterson Ridge 1-20H, Indian Creek 1-05H and MacFarlane 1-36H onsite notes

Hi Kelly,

It was great meeting you in person! Please find onsite notes for the referenced wells. Please pass this along to your team members as I do not have everyone's email address. Let me know if there is anything that I may have missed. I will be on vacation starting tomorrow and will return on October 26th. If you need immediate assistance please contact Kaylene Gardner at 435-621-9099. Thank you.

Date: 10/4/2011

Attendees:

Liza Rossi (Colorado Parks and Wildlife)
Robert Wilkins (EOG)
Jennifer Yu (EOG)
Kelly Elliott (BLM – Minerals)
Bill Wyatt (BLM – Archaeology)
Megan McGuire (BLM – Biology)
Hannah Schechter (BLM – Visual Resources)
Loren Shanks (UELS)

Kevin Haas (UELS)

Peterson Ridge 1-20H

The referenced well is located within the proposed core wildlife study area. BLM & CDPW propose to move the well to the west side of Highway 14 - between the highway and power line. Statewide setback requires a distance of 150' from any public road and major above ground utility line. There appears not enough room to wedge a pad in the proposed alternate area. In addition, the referenced well is a horizontal well and by placing it there would not allow EOG to fully maximize reservoir potential. The well cannot move from where it is currently proposed due to geologic limitations.

BLM requires an archaeological survey covering 15 acres around the center of the pad and 50' on each side of the road ROW (140' wide). High potential for burials, flakes and drylines along the ridge. A paleo survey is also required.

SGN (3/1-6/30) and WR (12/1-4/30) timing restrictions.

Indian Creek 1-05H

The pad will be rotated so that the proposed access road utilizes the existing two track instead of creating additional disturbance. There is an active lek on County Road 21. An alternative route has been identified to avoid the lek. The well will be accessed from Rand on CR 27 and CR 21 .

BLM requires an archaeological survey covering 15 acres around the center of the pad and 50' on each side of the road ROW (140' wide). A paleo survey is also required.

SGN (3/1-6/30) and WR (12/1-4/30) timing restrictions.

[Liza does not believe that the BLM discussed Big Game WR timing restrictions for this site.](#)

MacFarlane 1-36H

There are two active leks along the proposed access road. Surface disturbance activities are prohibited within a 0.6 mile buffer around the lek area. BLM & CDPW propose that EOG use an existing road from the west. EOG will attempt to secure permission from the private landowner (s) for access to evaluate the existing access road.

BLM requires an archaeological survey covering 15 acres around the center of the pad and 50' on each side of the road ROW (140' wide). High potential for cultural inventory near the water. A paleo survey is also required.

SGN (3/1-6/30) and WR (12/1-4/30) timing restrictions.

Wetland evaluation to determine if a Section 404 Permit is required for the access road.

Kind Regards,
Jennifer Yu
EOG Resources, Inc.
Phone: 303-824-5576
Fax: 303-824-5577

