

From: [Deranleau, Greg](mailto:Deranleau.Greg)
To: ["CRueter@nobleenergyinc.com"](mailto:CRueter@nobleenergyinc.com)
Cc: Yokley, Bill; Stanczyk, Jane; LPavelka@nobleenergyinc.com
Subject: RE: WWC 1-9 water testing COA
Date: Wednesday, July 25, 2012 3:24:19 PM

Curtis,
Thanks again. This has been taken off hold.

Bill,
Please move ahead with your work on this.

Thanks,

Greg Deranleau
Oil & Gas Location Assessment Supervisor
Colorado Oil and Gas Conservation Commission
303-894-2100 ext. 5153

From: CRueter@nobleenergyinc.com [mailto:CRueter@nobleenergyinc.com]
Sent: Wednesday, July 25, 2012 3:11 PM
To: Deranleau, Greg
Cc: Yokley, Bill; Stanczyk, Jane; LPavelka@nobleenergyinc.com; Garrison, Penny
Subject: RE: WWC 1-9 water testing COA

Greg,

We use tanks to capture all of our flowback (no pits), so I think we should be fine.

Thanks
Curtis

Curtis Rueter
Noble Energy, Inc.
1625 Broadway, Suite 2200
Denver, CO 80202
(303) 228-4048 office
(303) 265-9940 fax
(303) 915-8848 (cell)

From: "Deranleau, Greg" <Greg.Deranleau@state.co.us>
To: "Garrison, Penny" <Penny.Garrison@state.co.us>, <CRueter@nobleenergyinc.com>, "Yokley, Bill" <Bill.Yokley@state.co.us>
Cc: <LPavelka@nobleenergyinc.com>, "Stanczyk, Jane" <Jane.Stanczyk@state.co.us>
Date: 07/25/2012 03:03 PM
Subject: RE: WWC 1-9 water testing COA

Penny, Noted, thanks.

Curtis,

Thanks for sending someone out and for providing the detailed description. I feel comfortable with the COA as sufficiently protective, given what's been said. However, your field person mentioned shallow water—that leads me to ask if a pit will be utilized for any purpose (i.e. flowback). If not, I've got nothing more to add.

Thanks again for all the effort on this recomplete application.

-Greg

Greg Deranleau
Oil & Gas Location Assessment Supervisor
Colorado Oil and Gas Conservation Commission
303-894-2100 ext. 5153

From: Garrison, Penny
Sent: Wednesday, July 25, 2012 11:09 AM
To: CRueter@nobleenergyinc.com; Deranleau, Greg; Yokley, Bill
Cc: LPavelka@nobleenergyinc.com; Stanczyk, Jane
Subject: RE: WWC 1-9 water testing COA

API Number
05-001-08902-00

Hi All,

I just wanted to let you know that with the change from Weld county to Adams this falls under Bill Yokley's assignments.

Please contact Bill at x5154 and/or add him to your emails.
Thanks,

Penny Garrison

303.894.2100 x5156 | penny.garrison@state.co.us

From: CRueter@nobleenergyinc.com [<mailto:CRueter@nobleenergyinc.com>]
Sent: Wednesday, July 25, 2012 9:43 AM
To: Deranleau, Greg
Cc: Garrison, Penny; LPavelka@nobleenergyinc.com
Subject: RE: WWC 1-9 water testing COA

Greg,

I think those both sound reasonable. I did get one of our guys to visit the site yesterday, and here's the description I got back.

"The general lay of the land is a gradual slope to the north. the well and tank battery have residents on all sides with a few also having stables. Directly North of the well at an estimated 120-130' is a 1.5 foot wide ditch that curves to the south east. Directly west of the well at an estimated 100' is a small pond. From the well head there is a a 4' embankment up to the edge of the pond. The vegetation in the immediate area is green and the top soil is sandy which leads me to believe that the groundwater in the area may be high and something to consider. As for the nearby water any run off from the site is highly unlikely to get into the pond and Filtrex can be used to protect the ditch to the north. Filtrex is a wattle that has been proven effective is filtering sediment and with it's weight no additional disturbance is necessary for install. "

So I think we feel pretty comfortable that the ditch and pond are far enough away that they won't be affected by our activity.

Thanks
Curtis

Curtis Rueter
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(303) 915-8848 (cell)

From: "Deranleau, Greg" <Greg.Deranleau@state.co.us>
To: <CRueter@nobleenergyinc.com>
Cc: "Garrison, Penny" <Penny.Garrison@state.co.us>
Date: 07/25/2012 07:22 AM
Subject: RE: WWC 1-9 water testing COA

Curtis,

I have put in the following BMP (note modification from your original proposed wording and addition of 3 year post completion sample):

Prior to any activity Noble Energy Inc. will sample the two nearest water wells per the COGA Voluntary Baseline Groundwater Quality Sampling Program, dated 11/15/2011. Results will be shared with both the water well owner and COGCC within three months of sample collection. Noble will collect an additional follow-up sample from the selected wells 3 years post re-completion, with data provided as stated above.

I am also proposing the following COA for the irrigation pond and ditches, unless you would like to handle it differently:

Operator shall protect any onsite irrigation ditches and the adjacent irrigation pond from damage as a result of recompletion operations. Flow through any irrigation ditches diverted or modified during the recompletion shall be restored by operator during interim reclamation.

Please let me know if these work for you and I will put them on and hand it back to Penny.

Thanks,

Greg Deranleau
Oil & Gas Location Assessment Supervisor
Colorado Oil and Gas Conservation Commission
303-894-2100 ext. 5153

From: Deranleau, Greg
Sent: Friday, July 20, 2012 4:44 PM
To: 'CRueter@nobleenergyinc.com'
Subject: RE: WWC 1-9 water testing COA

Thanks. Sorry I did not bring up the irrigation ditch, before. The concern raised was not clear to me, but after discussing with Diana, it made more sense. Perhaps just an evaluation of the site, mapping out any ditches that could be affected prior to breaking ground or placing any temporary equipment and a commitment to avoid or repair any damage.

Have a good weekend.

Greg Deranleau
Oil & Gas Location Assessment Supervisor
Colorado Oil and Gas Conservation Commission
303-894-2100 ext. 5153

From: CRueter@nobleenergyinc.com [<mailto:CRueter@nobleenergyinc.com>]
Sent: Friday, July 20, 2012 4:11 PM
To: Deranleau, Greg
Cc: Burn, Diana
Subject: Re: WWC 1-9 water testing COA

Greg,

Let's put the sampling in as a BMP and we are OK with the three year requirement as well.

I'll have to look into the irrigation ditch issue.

Thanks
Curtis

From: "Deranleau, Greg" [Greg.Deranleau@state.co.us]
Sent: 07/20/2012 03:04 PM CST
To: Curtis Rueter
Cc: "Burn, Diana" <Diana.Burn@state.co.us>
Subject: RE: WWC 1-9 water testing COA

Curtis,

Do you want me to put the sampling as a BMP or COA? Also, can I add a 3 year follow up to the language provided?

Also, this public comment was received on the recomplete application. Diana Burn is working the APD right now and trying to get finished up...

We have received notice of your intent to recomplete WWC 01-09. We have some concerns about this workover. I work in the industry and do not want to give the impression that I am trying to block this work. Not the case at all, but we have some concerns. The well in question is literally on the bank of our irrigation reservoir. This raises three issues for us.

First and foremost, I am very concerned about our reservoir being able to take any pressure that you may impose on it, both on the surface and sub surface as well. I don't believe that a 25000 surface bond would be sufficient to repair the reservoir if it incurs damage, and depending upon when this work is done, the damage may not even be discovered until next summer when irrigation begins.

Along these same lines, our main ditches come off of this reservoir crossing the adjoining field. As you can

imagine, the elevation/grade of these ditches are fairly precarious and any driving across them, or changes in the surrounding surface could alter the flow, which then services the majority of our irrigation share owners. I am not clear on the size/scope of this workover, but anything beyond a small workover rig, would almost necessarily have to sit on this area.....And again, any damages incurred might not even be discovered until next year.

The final concern is the obvious, how will the concern of chemicals being introduced into our water table for irrigation be handled. Two of our main ditches directly feed from this reservoir and the to our individual properties where it is directly put onto grounds where livestock feed and in many cases, owners have water wells.

If you could let us know your thoughts on these matters, I would appreciate it.

Can you address the site grading with respect to protecting the irrigation ditches.

Greg Deranleau
Oil & Gas Location Assessment Supervisor
Colorado Oil and Gas Conservation Commission
303-894-2100 ext. 5153

From: CRueter@nobleenergyinc.com [<mailto:CRueter@nobleenergyinc.com>]

Sent: Wednesday, July 18, 2012 2:52 PM

To: Deranleau, Greg

Cc: CRueter@nobleenergyinc.com

Subject: Fw: WWC 1-9 water testing COA

Greg,

As a followup to our conversations on this issue, here's some example text for what we think a COA might look like. Basically, we're fine with implementing the COGA Voluntary Baseline Water program on this re-complete application. We didn't want to identify specific wells because it is subject to landowners giving us approval to sample, and we felt like the COGA program is now the "standard" that we follow, so it made the most sense just to implement that.

I hope this is acceptable to you. If you have additional suggestions or feedback, please let me know.

Thanks
Curtis

Curtis Rueter
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----- Forwarded by Curtis Rueter/Denver/NobleEnergy/Samedan on 07/18/2012 02:33 PM -----

From: Ryan Bruner/Denver/NobleEnergy/Samedan
To: crueter@nobleenergyinc.com
Date: 07/18/2012 08:06 AM
Subject: WWC 1-9 water testing COA

- Prior to any activity Noble Energy Inc. will sample the two nearest water wells per the COGA Voluntary Baseline Groundwater Quality Sampling Program, dated 11/15/2011. Results will be shared with both the landowner and COGCC within three months of sample collection.

Ryan Bruner
Environmental and
Regulatory Supervisor
direct: 303.228.4158
cell: 303.552.6763
fax: 303.228.4286
nobleenergyinc.com



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