



STATE OF
COLORADO

Andrews - DNR, Doug <doug.andrews@state.co.us>

Local Disposition: Daffy Pad (Doc ID 401724907)

11 messages

Erin Mathews <emathews@mallardexploration.com>

Tue, Aug 13, 2019 at 3:31 PM

To: Laurel Faber - DNR <laurel.faber@state.co.us>, "Andrews - DNR, Doug" <doug.andrews@state.co.us>

Cc: Justin Garrett <jgarrett@ascentgeomatics.com>

Laurel & Doug,

I wanted to let you know that Weld County approved the WOGLA for the Daffy Pad yesterday.

Form 2A: Daffy Pad (Doc ID 401724907)

Form 2s: 32 APDs (Daffy 28-21-1HN - Doc ID 401724912)

Local Government: County

The local government siting permit type: WOGLA

Filed on: 4/11/2019

Disposition: Approved (8/12/2019)

Please let us know if you have any questions.

Thanks,

Erin

Erin Mathews, PE

VP of Development

Mallard Exploration

1400 16th St. Suite 300 Denver, CO 80202

W: 720.543.7959 | C: 970.302.6171 | E-mail: emathews@mallardexploration.com



Andrews - DNR, Doug <doug.andrews@state.co.us>
To: Erin Mathews <emathews@mallardexploration.com>

Mon, Jun 8, 2020 at 12:13 PM

Erin,
Will you provide me with the approved WOGLA Permit number for this location. I'm working this Form 2A this month and so may have another follow-up email. Were you aware that CPW placed a Comment on this 2A? Please take a look at it and let us know if Mallard has or will be in contact with them about the species they have concerns for.

Doug Andrews

Oil & Gas Location Assessment Specialist - Northeast Colorado



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Oil & Gas Conservation
Commission
Department of Natural Resources

303.894.2100 Ext. 5180
1120 Lincoln St., Suite 801, Denver, CO 80203
doug.andrews@state.co.us | <http://cogcc.state.co.us/>

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Erin Mathews <emathews@mallardexploration.com>
To: "Andrews - DNR, Doug" <doug.andrews@state.co.us>

Mon, Jun 8, 2020 at 12:29 PM

Doug,

Thanks for the email. We have reviewed the CPW comments and Mallard agrees to the recommendations listed by CPW. Once the construction schedule of the Daffy Pad is finalized, Mallard will consult with CPW and should operations fall within the outlined timeframes Mallard will conduct the necessary surveys as outlined.

Here is the WOGLA information:

WOGLA19-0043

Approved 8/9/2019

Submitted 4/11/2019

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Andrews - DNR, Doug <doug.andrews@state.co.us> Wed, Jun 10, 2020 at 1:49 PM
To: Erin Mathews <emathews@mallardexploration.com>, Laurel Faber - DNR <laurel.faber@state.co.us>, Regulatory Team <regulatory@ascentgeomatics.com>

Erin,

This Form 2A looks pretty good, only a few things to get updated. However, some of them are kinda big picture items.

- 1) Please provide updated dates for construction and interim reclamation starts.
- 2) Please provide the Cultural distances from both the nearest well and nearest production facility to the nearest School Facility, School Property Line, and Child Care Center.

3) Mallard Exploration recently submitted a few Amended 2As for other locations as they decided to reduce well counts and spacing and wanted to update the BMPs as well. This Form 2A is proposing 32 wells/96 tanks/32 separators etc. requesting 25.2 acres during construction and 14.3 acres after interim reclamation. Is this still what Mallard wishes to permit for this location?

4) The BMPs on this Form 2A should probably be updated to reflect current practices and COGCC requirements. Please take a look at what was included when this Form 2A was submitted and send me a list of any new and revised BMPs you wish to include. As submitted, this location meets Objective Criteria 1 for Building Units with 1,500 feet, Criteria 5.c for nearby surface water features, and Criteria 8 for the large number of storage tanks. Please be sure to tailor your BMPs to address impacts related to these Objective Criteria.

5) Were Health Study notices sent out to all Building Unit owners/occupants within 2,000 feet of the edge of the location? If yes, when was this done and has Mallard Exploration received any responses?

6) There is an Operator Comment on this Form 2A that states "*Mallard Exploration does not anticipate developing this oil and gas location until the completion of a natural gas gathering system and processing plant that will be constructed in the vicinity of the location by a third party. The gathering system and processing plant are anticipated to be operational during the first quarter of 2019. Mallard has entered into a contract with the operator of the gathering system/plant.*" Please provide an updated Operator Comment that addresses this issue.

7) There is an Operator Comment on this Form 2A that states "*Site grading will retain natural drainage patterns with respect to the ephemeral stream.*" Please provide a BMP and/or a drawing that further expands on how this will be accomplished.

If you have any questions, please feel free to contact me. Thank you.

Doug Andrews

Oil & Gas Location Assessment Specialist - Northeast Colorado



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Erin Mathews <emathews@mallardexploration.com>
To: "Andrews - DNR, Doug" <doug.andrews@state.co.us>

Fri, Jun 12, 2020 at 9:20 AM

Doug,

Thanks for your email. I have a couple of questions that I would like to discuss with you so please give me a call on my cell phone (970-302-6171) at your earliest convenience.

[Quoted text hidden]

Erin Mathews <emathews@mallardexploration.com>
To: "Andrews - DNR, Doug" <doug.andrews@state.co.us>
Cc: Laurel Faber DNR <laurel.faber@state.co.us>, Regulatory <regulatory@ascentgeomatrics.com>

Tue, Jun 23, 2020 at 2:53 PM

Doug,

Thank you for the questions and comments. Please see below for our responses in red and attached supporting documents.

Thanks,

Erin

Erin Mathews, PE

VP of Development

Mallard Exploration

1400 16th St. Suite 300 Denver, CO 80202

W: 720.543.7959 | C: 970.302.6171 | E-mail: emathews@mallardexploration.com



From: Andrews - DNR, Doug <doug.andrews@state.co.us>

Sent: Wednesday, June 10, 2020 1:49 PM

To: Erin Mathews <emathews@mallardexploration.com>; Laurel Faber - DNR <laurel.faber@state.co.us>; Regulatory Team <regulatory@ascentgeomatics.com>

Subject: Re: Local Disposition: Daffy Pad (Doc ID 401724907)

Erin,

This Form 2A looks pretty good, only a few things to get updated. However, some of them are kinda big picture items.

1) Please provide updated dates for construction and interim reclamation starts.

Construction Start: 6/1/2021

Interim Reclamation Start: 12/1/2021

2) Please provide the Cultural distances from both the nearest well and nearest production facility to the nearest School Facility, School Property Line, and Child Care Center.

	<u>From Wells</u>	<u>From Equipment</u>
School Facility	3515' NE	3118' NE
School Property Line	3466' NE	3070' NE
Child Care Center	5280+	5280+

3) Mallard Exploration recently submitted a few Amended 2As for other locations as they decided to reduce well counts and spacing and wanted to update the BMPs as well. This Form 2A is proposing 32 wells/96 tanks/32 separators etc. requesting 25.2 acres during construction and 14.3 acres after interim reclamation. Is this still what Mallard wishes to permit for this location?

Mallard would like to proceed with 32 wells on this location. The Daffy Pad is one of Mallard's western most pads planned with north to south laterals. We have yet to complete a well density test in this area and therefore would like to continue with the 16 wells per section density that we have applied for in our spacing applications and our APD submittals. We would like to reduce the facility equipment that was submitted on the Form 2A. Mallard is committed to using oil and produced water pipelines to fully develop this pad and therefore we would like to revise the Facilities Section to include the equipment listed below. This is a significant reduction in the number of tanks from the original submittal and the commitment to using pipelines will results in a significant reduction in traffic.

The 25.2 acre pad that we are requesting during construction is necessary due to the existing topography of the location. In order to create a pad that will support simultaneous operations during drilling and completion activities as well as protect the health, safety, and environment, this disturbance area is necessary. Please refer to the Construction Grading exhibit attached. To prevent off site stormwater drainage from flowing onto the location, earthen berms will be constructed along the southern and western edges of the location. Additionally a diversion channel will be constructed along the eastern edge of the location to facilitate the natural drainage patterns of the existing ephemeral stream. A sediment basin will be constructed along the northern edge to capture any sediment prior to leaving the location.

Due to the reduction in the production facility equipment, Mallard would like to revise the location size after interim reclamation to 9.3 acres, which is a reduction in 5 acres from the original submittal.

FACILITIES	
Wells	32
Oil Tanks	20
Water Tanks	20

MLVTs	2
Pump Jacks	32
Separators	40
Gas Compressors	12
Gas/Diesel Motors	32
Electric Motors	32
Electric Generators	8
LACT Units	8
OTHER FACILITIES	
Sump	4
Emission Control Devices	16
Instrument Air Skid	4
Gas Lift Distribution Meter Skid	4
Sales Gas Scrubber	4
Sales Gas Skid	4

4) The BMPs on this Form 2A should probably be updated to reflect current practices and COGCC requirements. Please take a look at what was included when this Form 2A was submitted and send me a list of any new and revised BMPs you wish to include. As submitted, this location meets Objective Criteria 1 for Building Units with 1,500 feet, Criteria 5.c for nearby surface water features, and Criteria 8 for the large number of storage tanks. Please be sure to tailor your BMPs to address impacts related to these Objective Criteria.

Please see the attached document for a list of revised BMPs for this location. Please replace the current BMPs with these updated site specific BMPs.

5) Were Health Study notices sent out to all Building Unit owners/occupants within 2,000 feet of the edge of the location? If yes, when was this done and has Mallard Exploration received any responses?

Health Study notices were mailed to the 3 Building Unit Owners within 2,000' of the location on June 23, 2020. Mallard will keep staff informed of any responses received.

6) There is an Operator Comment on this Form 2A that states "*Mallard Exploration does not anticipate developing this oil and gas location until the completion of a natural gas gathering system and processing plant that will be constructed in the vicinity of the location by a third party. The gathering system and processing plant are anticipated to be operational during the first quarter of 2019. Mallard has entered into a contract with the operator of the gathering system/plant.*" Please provide an updated Operator Comment that addresses this issue.

Please remove this comment as it is no longer applicable.

7) There is an Operator Comment on this Form 2A that states "*Site grading will retain natural drainage patterns with respect to the ephemeral stream.*" Please provide a BMP and/or a drawing that further expands on how this will be accomplished.

Through construction of earthen berms and a diversion channel the existing ephemeral stream will be routed around the Daffy Pad. The diversion channel will allow offsite stormwater drainage to pass around the location to the existing swale within the Highway 14 ROW maintaining the existing drainage patterns in this area. Please refer to the attached Construction Grading exhibit for more detail.

If you have any questions, please feel free to contact me. Thank you.

Doug Andrews

Oil & Gas Location Assessment Specialist - Northeast Colorado

[Redacted signature area]

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303.894.2100 Ext. 5180

1120 Lincoln St., Suite 801, Denver, CO 80203

doug.andrews@state.co.us | <http://cogcc.state.co.us/>

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2 attachments

 **Daffy Construction Grading Exhibit.pdf**
908K

 **BMPs.docx**
27K

Erin Mathews <emathews@mallardexploration.com> Wed, Jul 8, 2020 at 4:11 PM
To: "Andrews - DNR, Doug" <doug.andrews@state.co.us>
Cc: Laurel Faber DNR <laurel.faber@state.co.us>, Regulatory <regulatory@ascentgeomatics.com>

Doug,

I just wanted to check in and see if the information that I provided on 6/23/2020 answered your questions. I see that the Daffy Pad is still on hold.

Thanks,

Erin

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Andrews - DNR, Doug <doug.andrews@state.co.us> Wed, Jul 8, 2020 at 4:17 PM
To: Erin Mathews <emathews@mallardexploration.com>
Cc: Regulatory <regulatory@ascentgeomatics.com>

Erin,

Has Mallard received any responses from any of the Health Study Notices that were sent out on June 23?

Doug Andrews
Oil & Gas Location Assessment Specialist - Northeast Colorado



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Erin Mathews <emathews@mallardexploration.com>
To: "Andrews - DNR, Doug" <doug.andrews@state.co.us>
Cc: Regulatory <regulatory@ascentgeomatics.com>

Wed, Jul 8, 2020 at 4:58 PM

Doug,

We have not received any written requests for consultation. I will double check with our surface landman that he has not received any phone calls.

Thanks,

Erin

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Erin Mathews <emathews@mallardexploration.com>
To: "Andrews - DNR, Doug" <doug.andrews@state.co.us>
Cc: Regulatory <regulatory@ascentgeomatics.com>

Thu, Jul 9, 2020 at 9:10 AM

Doug,

Mallard's surface landman (John Linton) confirmed that to date, he has not received any phone calls or written communication regarding the health study notices that were mailed out.

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Andrews - DNR, Doug <doug.andrews@state.co.us>
To: Erin Mathews <emathews@mallardexploration.com>
Cc: Regulatory <regulatory@ascentgeomatics.com>

Thu, Jul 9, 2020 at 9:15 AM

Erin,
Thanks for the update. I was waiting on this before finishing my review of the Daffy Pad 2A. I'm shooting to have the Objective Criteria review with the Director next week.

Doug Andrews

Oil & Gas Location Assessment Specialist - Northeast Colorado



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