

From: [Pugh, Emily](#)
To: [Difima - DNR, Edith](#); [Bob Koehler - DNR](#)
Cc: [Peterson, Diane L. \(DLPE\)](#); [Griffin, Kenneth](#); [Etten, Jordan R](#); [Veneracion, Noel S](#)
Subject: RE: Emerald 79X UIC Application Review
Date: Wednesday, February 28, 2018 3:41:26 PM
Attachments: [image001.png](#)

Hi Bob and Edith,

Bob – It was good chatting with you today. Thank you for the direction you provided to both Jordan and I regarding the final outstanding items we need to complete for the Form 31 Intent.

Edith – Below I would like to report on the last outstanding items that you requested.

- Pressure and Volume preliminary calculations.
 - Chevron will submit a step rate test once the well work is completed so that we can make sure we are within the permitted injection rates and pressures. We will submit this step rate test with the “Form 31 – Subsequent”.
- From the letters you submitted, no letter addressed to Emerald Oil Company.
 - We have sent a letter to Emerald Oil Co and are expecting to receive a receipt early next week. We will provide the receipt to you once we have it.
- Remedial plan
 - There is no need for a remedial plan given that the wells within ¼ mile of EM 79X have cement extending across the Navajo.
- A new area of review including all the wells from other operators. The one you submitted only included Chevron's wells so it is incomplete.
 - All of the wells (active, TA, SI, or P&A) within ¼ mile of the EM 79X are Chevron wells. There aren't any wells from other operators to report.

Please let us know if there is any item beyond the notice to Emerald Oil Co. that you guys are waiting on.

Please note that I included Ken in this email as he has replaced Jimmy Cooper as the Reservoir Engineer for Rangely.

Thank you,
Emily

From: Pugh, Emily
Sent: Thursday, February 15, 2018 10:55 AM
To: 'Difima - DNR, Edith' <edith.difima@state.co.us>
Cc: Bob Koehler - DNR <bob.koehler@state.co.us>
Subject: RE: [**EXTERNAL**] Emerald 79X UIC Application Review

Hi Edith,

Thank you for your reply.

I have a few questions. Please see my comments below in red.

Emily

From: Difima - DNR, Edith [<mailto:edith.difima@state.co.us>]
Sent: Thursday, February 15, 2018 10:04 AM
To: Pugh, Emily <Emily.Pugh@chevron.com>
Cc: Bob Koehler - DNR <bob.koehler@state.co.us>
Subject: [****EXTERNAL****] Emerald 79X UIC Application Review

Hello Emily,

While reviewing the UIC Intent application for Emerald 79X, we made a list of components that are missing.

Here they are:

- No certified receipts for mineral and surface owners notifications
- From the letters you submitted, no letter addressed to Emerald Oil Company. **-It looks like we must've overlooked the Emerald Oil Co. What database did you use to pull up the surface and mineral owners? I'd like to recommend it to our landman.**
- Pressure and Volume preliminary calculations. **-Please clarify.**
- Surface Use Agreement **-Please clarify.**
- Remedial plan **-Please clarify.**
- Resubmit the Oil & Gas and Water Well map **within ¼-mile; and producers from injection zone in ½-mile.** The legend was cropped out on the one submitted.
- Form 26 was deleted. You will have to submit one.
- Surface facilities diagram. **-Is there an example you could provide from another well so that we can make sure we provide the information needed?**
- A new area of review including all the wells from other operators. The one you submitted only included Chevron's wells so it is incomplete. **-I am thinking there aren't any other wells from other operators. I can still provide the review with a confirmation that this is true.**

On our end, we are working on getting your Form 2 for recomplete approved and your Form 5A for Weber formation abandonment passed. We are also waiting on a hydrology and seismic evaluation.

Please let us know if you have any questions.

Thanks,

Edith Difima

Integrity Engineer- COGCC
Department of Natural Resources



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