

From: [Cherry, Tracie](#)
To: [Engineer, OCD, EMNRD](#)
Subject: [EXT] FW: SWD application for Big Eddy Unit 17 Federal SWD 1
Date: Monday, January 6, 2020 2:58:33 PM
Attachments: [Big Eddy Unit 17 Fed SWD #1.msg](#)
[3652_001.pdf](#)

Good afternoon Dean. Apologies for the delay in answering, holidays and vacations have interrupted the normal routine around here.

The statement requested below is attached in an email from our geologist Matt Kearney. Will this have to be included in subsequent applications or can a statement just be included in the C-108?

A corrected C-108 form is attached. Yes, depths on the form were typos. I had submitted a revised form in November but it must not have gotten into the system.

Yes, this SWD will be used only for XTO operations.

As for determining top of cement on the liner, it will be by circulation. Enough cement will be pumped to circulate cement from the liner shoe to the top of the liner, excess cement will circulate out of the top of the liner. Per the standard COAs included in SWD applications now, a CBL will be run to show the bonding across the top of the liner and above the previous casing shoe.

If any additional information is needed, please do not hesitate to get in contact with me.

Thank you...Tracie Cherry

From: McClure, Dean, EMNRD [mailto:Dean.McClure@state.nm.us]
Sent: Thursday, December 12, 2019 12:40 PM
To: Cherry, Tracie <Tracie_Cherry@xtoenergy.com>
Subject: SWD application for Big Eddy Unit 17 Federal SWD 1

Hello Tracie,

I am reviewing the SWD application submitted for Big Eddy Unit 17 Federal SWD 1 operated by XTO Permian Operating, LLC. I would like to see the following things:

- A statement by a qualified person confirming that confining layers exist above and below the injection zone and identifying those layers. In this case it would likely be the Woodford and Montoya, but I would like to see something confirming that XTO believes them to be suitable confining layers for this well.
- A confirmation of where the injection interval is projected to be.
 - B. 2) has the open hole listed as being from 1,240 to 14,975 which is a typo.
 - The well diagram has the injection interval being from 14,240 to 14,975 which I assume is the correct numbers.

- o VIII. seems to state that the Devonian and Fusselman extend from 14,321 to 14,978. I am assuming that this is a typo because the well diagram has the top of the Devonian listed as being 14,231 which makes sense for the proposed well design, but would like confirmation.
- I am assuming that the purpose of this well is for “operator only” but would like confirmation.
- What is the proposed method of determining TOC for the liner? The application states by Circulation but must be a typo.

Please submit the requested information via email to myself and CC OCD.engineer@state.nm.us . I would like to see the statement about confining layers on its own, but the rest can be submitted in whatever form is most convenient for you.

Other than the afore mentioned things, everything looks good with this application upon initial review.

Dean McClure
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