

STATE OF NEW MEXICO
ENERGY, MINERALS, AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION COMMISSION

IN THE MATTER OF THE HEARING CALLED
BY THE OIL CONSERVATION COMMISSION FOR
THE PURPOSE OF CONSIDERING:

CASE NOS 21528

APPLICATION OF OIL CONSERVATION DIVISION
TO ADOPT 19.15.27 NMAC AND 19.15.28 NMAC, AND
TO AMEND 19.15.7 NMAC, 19.15.18 NMAC, AND
19.15.19 NMAC; STATEWIDE.

REPORTER'S TRANSCRIPT OF VIRTUAL PROCEEDINGS
RULEMAKING HEARING
January 15, 2021
Via Webex Platform
Santa Fe, New Mexico

BEFORE: ADRIENNE SANDOVAL, CHAIRWOMAN
JORDAN KESSLER, COMMISSIONER
DR. THOMAS ENGLER, COMMISSIONER
FELICIA ORTH: HEARING EXAMINER
CHRIS MOANDER, ESQ.

This matter came on for hearing before the New Mexico Oil Conservation Commission on January 21, 2021, via Webex Virtual Platform, hosted by New Mexico Energy, Minerals, and Natural Resources Department.

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1 HEARING EXAMINER ORTH: All right. Good morning.
2 My name is Felicia Orth, the Hearing Officer appointed by
3 the Oil Conservation Commission to conduct a hearing in
4 21528.

5 We are on day ten of the hearing, and this is the
6 8:30 public comment session. We have two commenters
7 scheduled to speak this morning. The first is Naomi
8 Martinez Parra and the second is Victor Snover.

9 Mr. Lamkin, would you please unmute the callers
10 so we can see if Ms. Parra is among them.

11 MR. LAMKIN: Good to go.

12 HEARING EXAMINER ORTH: Ms. Parra?

13 MS. PARRA: Yes, good morning.

14 HEARING EXAMINER ORTH: I can hear you. If you
15 would, please, offer your comment. We have all the
16 Commissioners on the line this morning.

17 MS. PARRA: Thank you, and good morning everyone.
18 My name is Naomi Martinez Parra, and my apologies, I'm a
19 little bit out of breath. I live in Lordsburg, New Mexico,
20 that's Hidalgo County. I would like to thank the Oil
21 Conservation Commission for the opportunity to speak to you
22 this morning.

23 I would quickly like to address three issues
24 today. The pollution, of course, during this pandemic, the
25 education and of course cost. So two months ago I was

1 infected with Covid, however, my health has been
2 compromised, and I, like many New Mexico suffer breathing
3 consequences due to Covid.

4 And now we have two battles to fight, we have
5 pollution and Covid, both of which can cause pulmonary
6 disease, like mine.

7 Next, I'm a mother. My daughter is 11 years old,
8 and it's my obligation to protect and advocate for her. It
9 is my duty to make sure that she receives the best education
10 and resources, but because of the venting and the flaring
11 and leaks waste, we are spending over 200 million of natural
12 gas per year in New Mexico.

13 Of course it's depriving the state of more than
14 40 million in royalties and tax revenue that could fund our
15 public education, especially because we need a more
16 diversified curriculum during this pandemic. And as a
17 retired special education teacher I understand first hand
18 the resources that are needed.

19 As a responsible New Mexico I want to be part of
20 the solution for our health, our economy, but most
21 importantly our kids, because their lives have already been
22 disrupted enough. I thank you again for the opportunity
23 this morning, and I apologize for the short wind. Please
24 have a blessed weekend. Thank you.

25 HEARING EXAMINER ORTH: Thank you very much, Ms.

1 Parra. Mr. Snover?

2 MR. SNOVER: Good morning, can you hear me okay?

3 HEARING EXAMINER ORTH: Yes, very clearly, thank
4 you.

5 MR. SNOVER: Thank you, thanks for having me. My
6 name is Victor Snover. I live in Aztec, New Mexico, and I'm
7 an elected city commissioner, appointed mayor up here, but
8 beyond that, or in addition to that, I'm a partner, I'm a
9 father, I'm a grandfather three times over, almost four, and
10 I'm a public school teacher as well as an elected official
11 up here in San Juan County.

12 I support Governor Lujan Grisham's call for
13 leading methane rules, but to achieve that goal the Oil
14 Conservation Commission must strengthen the Oil Conservation
15 Division's proposed methane waste rule to eliminate
16 unnecessary methane waste.

17 It is, it is my, my belief that we need to
18 achieve three key goals in routine venting and flaring to
19 only allow them when it's necessary for health and safety,
20 require oil and gas companies to capture 98 percent of their
21 methane emissions with the goal of 2026 to reach that,
22 strengthen state reporting and public notice requirements to
23 improve transparency and ensure accountability of oil and
24 gas operations.

25 It's no secret that methane is a powerful

1 greenhouse gas that is responsible for approximately a
2 quarter of the climate change we are experiencing today.
3 And like the previous caller said, fold this in with the
4 pandemic that attacks folks that have compromised
5 respiratory systems and you have an even bigger recipe for
6 disaster that was just waiting for us, kind of setting a
7 trap for folks that are already compromised. And then
8 you throw Covid into this breathing environment and it's no
9 wonder our cases are spiking the way they are. I digressed.

10 Methane is also the primary component of natural
11 gas, which means when methane is wasted, it costs our
12 schools upwards of \$43 million in royalties and tax
13 revenues. 2020 New Mexico Climate Strategy Progress and
14 Recommendations Report revealed that the oil and gas sector
15 generates 53 percent of all greenhouse gas emissions in our
16 state, more than twice the amount than previously estimated.

17 The Climate Strategy Report finds that our
18 current and proposed climate strategies will make a
19 significant dent in our greenhouse gas emissions profiled by
20 2030, but reaching our target will require renewed ambition
21 and additional action.

22 So we are asking that the Oil Conservation
23 Commission should approve the proposal before it by
24 requiring what's called green completions to minimize
25 methane emissions () provisions to ensure the flares stay

1 lit more properly at all times preventing methane from being
2 vented, requiring operators to immediately notify folks in
3 the communities at risk where methane releases threaten
4 public health, safety or environment, denying permits to
5 drill new wells if operators are out of compliance with gas
6 capture requirements.

7 I liken that to, if I have a car in a garage and
8 they do shoddy repairs, and then I buy a new car, I'm sure
9 as heck not going to bring it back to them to do it again if
10 they are not doing it right the first time. Why is this
11 industry any different? It still puts people's lives and
12 health at risk. If they are not doing it right, why should
13 we let them carry on doing the same thing improperly over
14 and over again? It makes no sense.

15 And I know I'm running out of time, but finally
16 since nearly 70 percent of oil and gas methane pollution in
17 New Mexico occurs through leaks, it's critical that the New
18 Mexico Environment Department adopt a rule to hold polluters
19 accountable across the oil and gas supply chain.

20 NMED's draft rule fails to protect public health
21 and our climate by exempting 95 percent of wells from
22 regulation across the state from oversight basically (
23 repair requirements. I mean, if you are driving down the
24 street, and you might have one person that's throwing trash
25 out of the window, and you let 95 out of 100 throw trash,

1 you continue to let them operate, they have no incentive to
2 do the right thing and to follow the rules and stop their
3 practices.

4 We have a methane and waste pollution problem.
5 It's causing our schools millions in revenue. We can't
6 afford to give up those millions of dollars in revenue.
7 Like I said, I'm a public school teacher. You don't have
8 money in many cases to buy the supplies that we need to do
9 our jobs. We are leaving money, unnecessarily leaving money
10 on the table in a state that consistently ranks in the
11 bottom tier of public education and health. It's
12 inexcusable, and we have an opportunity to do something
13 here.

14 And I'm urging our folks in Santa Fe, the Lujan
15 Grisham administration, with your organization, to toughen
16 these rules up. You have a window to do something really
17 good for this state and our citizens, and I urge you to
18 reconsider and to toughen this rule up.

19 I appreciate the time, and I hope you guys have a
20 great weekend. I know it's been a long ten days of
21 hearings, and I'm sure you have been hearing it all, but I
22 really do appreciate kind of hanging in there with everybody
23 and for what you guys do, I know it's not easy. So thank
24 you so much. I appreciate the time, and have a wonderful
25 weekend. Enjoy your holiday weekend.

1 HEARING EXAMINER ORTH: Thank you very much, Mr.
2 Snover. Mr. Lamkin, I believe we reached the end of the
3 commenters unless another commenter has reached out to you
4 through chat?

5 MR. LAMKIN: I haven't seen anything.

6 HEARING EXAMINER ORTH: All right. At this time,
7 based on the late, late breaking submission, rebuttal by the
8 Division, and the other parties' need for a little bit of
9 time this morning to review those rebuttal submissions, we
10 are going to take a break until 11 a.m..

11 When we return at 11, we will hear from the
12 Division's witnesses around that submission, and we may
13 potentially hear rebuttal from the other parties following
14 that, but that's not clear yet, and of course we will talk
15 about any potential post hearing process at that time.

16 Madam Chair, is there anything else we can talk
17 about before we take a break? I would direct the
18 Commissioner's attention to the most recent submission from
19 OCD which is from this morning rather than from last night.
20 I believe they added page numbers.

21 CHAIRWOMAN SANDOVAL: No, I don't think I have
22 anything additional, Ms. Orth. We'll reconvene at 11.

23 HEARING EXAMINER ORTH: Thank you all very much .
24 (Recessed until 11 a.m.)

25 HEARING EXAMINER ORTH: Good morning, everyone.

1 My name is Felicia Orth. We are on day ten of the hearing
2 in this matter case 21528. This morning we accepted two
3 public commenters and broke until 11 as requested by
4 counsel, collectively. We will hear from the Division this
5 morning in relation to their rebuttal exhibits, let's do a
6 sound check first.

7 Mr. Ames?

8 MR. AMES: Good morning, Madam Chair, Eric Ames
9 for OCD.

10 HEARING EXAMINER ORTH: Okay, thank you.

11 MR. AMES: Madam Hearing Officer, excuse me, and
12 Madam Chair.

13 HEARING EXAMINER ORTH: Mr. Feldewert?

14 MR. FELDEWERT: Madam Hearing Officer, Members of
15 the Commission, fellow Counsel, can you hear me okay?

16 HEARING EXAMINER ORTH: Yes.

17 MR. FELDEWERT: Madam Hearing Officer, thank you
18 very much for the break this morning and last night.

19 HEARING EXAMINER ORTH: I had to turn away from
20 listening to sea shanties to do that.

21 MR. FELDEWERT: And I know Mr. Ames and his group
22 worked as hard as they could to get it out as soon as they
23 could, so we will make the most of the situation and
24 hopefully ready to proceed.

25 HEARING EXAMINER ORTH: Terrific, Mr. Feldewert.

1 Mr. Biernoff?

2 MR. BIERNOFF: Good morning, Madam Hearing
3 Officer, Commissioners and Counsel.

4 HEARING EXAMINER ORTH: Good morning. Ms. Fox?

5 MS. FOX: Good morning, Madam Hearing Officer,
6 Commissioners, and I echo Mr. Feldewert's thanks for your
7 late night reprieve for us to look at OCD's submission.

8 HEARING EXAMINER ORTH: Thank you. And Ms.
9 Paranhos?

10 MS. PARANHOS: Good morning, Madam Hearing
11 Officer.

12 HEARING EXAMINER ORTH: Good morning. So let's
13 see. Irene, can you hear us?

14 REPORTER: I'm good to go.

15 HEARING EXAMINER ORTH: Terrific. Thank you very
16 much. Anything before we invite Mr. Ames to call or recall
17 his first witness?

18 MR. AMES: Yes, Madam Hearing Officer. With
19 respect to our rebuttal, I would like to make a brief
20 comments to begin in the request.

21 OCD intends to the present two witnesses for
22 rebuttal testimony. Last night we filed and served exhibits
23 4C and 4D, which is a full written account of our rebuttal
24 testimony. This morning we filed and served revised
25 versions of those exhibits. I added lines, numbers for the

1 lines and pages. There were no other changes to those
2 exhibits.

3 These exhibits reflect the considerable effort by
4 the Oil Conservation Division given the volume of work and
5 unexpectedly short period of time to do it in, and we
6 appreciate the understanding and response of the parties and
7 their counsel to the situation.

8 Now each witness will address a few of the items
9 in the exhibits and then stand for cross. And the exhibits
10 identified the witness best suited to address each line item
11 on the spreadsheets.

12 However, I would like to take this opportunity to
13 again request permission to call the witnesses individually
14 for direct and to present them as a panel for cross. I'm
15 aware that this deviates from how we have been doing this in
16 this hearing, however I think there are some distinct
17 advantages to doing it and relatively few disadvantages.

18 With respect to the advantages, as you can see
19 there are quite a few items on the spreadsheet. There are
20 at least 150 altogether, and there is some duplication
21 between the two parts so it's probably more like 120 unique
22 items, let's say.

23 These witnesses have a depth of knowledge on many
24 of these -- or they share a depth of knowledge on many of
25 please items, and they have different perspectives based on

1 their education, experience and employment. We've -- you
2 know, the identified witnesses may very well defer to the
3 other to answer a particular question or to elaborate on a
4 particular topic.

5 And OCD believes that it would facilitate useful
6 response for the Commission and to the parties if the
7 witnesses could stand for cross as a panel. And of course
8 it would avoid the necessity of having to recall witnesses
9 to address issues left unaddressed by the questioned
10 witness.

11 On the other hand, OCD does not see any apparent
12 downside to the panel approach. The fears about conducting
13 this hearing on a virtual platform have largely proved
14 unfounded. There have been minor technical issues, but no
15 issues with multiple people and multiple person, counsel and
16 parties participating in a discussion.

17 It's clear that multiple persons can be online,
18 on screen, and available to address questions on request,
19 and therefore I renew our request, our initial request for
20 permission to present the witnesses on rebuttal as a panel.

21 Thank you.

22 HEARING EXAMINER ORTH: Thank you, Mr. Ames. Let
23 me ask if there are objections from other counsel around the
24 Division presenting Mr. Bolander and Mr. Powell as a panel
25 for cross-examination?

1 MR. FELDEWERT: Yes, Madam Hearing Officer, I
2 do -- I do not believe that is appropriate. Number one, we
3 have already addressed this in a prehearing filing and had a
4 ruling from -- on this very topic, and for sound reasons,
5 which are, in my mind, equally applicable here.

6 Each witness needs to stand on their own areas of
7 testimony. And Mr. -- and OCD Exhibit 4C and 4D don't
8 identify two witnesses attributable to the rebuttal
9 testimony. They identify a particular witness as the
10 witness for a particular topic. And that is how it's going
11 to be in the record.

12 As a result it is that witness that needs to be
13 able to substantiate what they purport to have as their
14 testimony on this exhibit. And so it's inappropriate, for
15 example, to have Mr. Powell testify about a statement on
16 this exhibit that is attributed to Mr. Bolander, and vice
17 versa.

18 They need to stand on their own and they need to
19 substantiate and stand for cross-examination on these
20 statements that they have attributed to themselves.

21 HEARING EXAMINER ORTH: All right. Thank you,
22 Mr. Feldewert. Mr. Biernoff?

23 MR. BIERNOFF: Madam Hearing Officer, from our
24 point of view, the presentation approach outlined by counsel
25 for the Oil Conservation Division is sound, is designed to

1 promote efficiency, and really does not detract from any
2 substantive play from any party's ability to get testimony,
3 to get information from the Division.

4 I think at this point every party has had an
5 ample opportunity to not only put on his own case, but also
6 the question of the other party's witnesses. And I think at
7 this point in the proceeding its an appropriate suggestion
8 that Mr. Ames made.

9 HEARING EXAMINER ORTH: Ms. Fox?

10 MS. FOX: Thank you, Madam Hearing Officer. We
11 don't have any objection to the proposed procedure. And as
12 to Mr. Feldewert's point about being able to question a
13 particular witness on a particular topic identified in this
14 summary that Mr. Ames provided, counsel would still be
15 permitted to initially -- and we talked about this
16 previously when we talked about this procedure before --
17 counsel would still be able to look at the summary, see that
18 the testimony is attributed to one witness or not, and
19 initially ask that witness, you know, if they can
20 substantiate the testimony set forth in this summary.

21 And, if they can't, you know, that, that goes to
22 that witness' credibility for sure. And so that ability of
23 counsel is not disabled by this technique, which we do think
24 would be efficient, more efficient at this point in the
25 process.

1 We would only request permission to allow both
2 Mr. Baake and myself to ask questions of both witnesses
3 because Mr. Baake and I have divided up witnesses, we
4 divided up areas of expertise, and this document, of course,
5 covers, you know, the entire proceeding and we have had a
6 very short amount of time to prepare. And so we would just
7 ask permission if both witnesses are ready to go, that both
8 of us can be prepared to ask cross.

9 HEARING EXAMINER ORTH: Thank you. Ms. Paranhos.

10 MS. PARANHOS: Thank you, Madam Hearing Officer,
11 I fully support OCD's proposal here. It sounds like it will
12 be a very efficient way to move expeditiously through OCD's
13 rebuttal. That's all I have to say on that one.

14 HEARING EXAMINER ORTH: All right, thank you.
15 Madam Chair, how would you like me to address this? I
16 understand the Commission earlier did not grant that
17 request. I suspect I may be a bigger fan of panels for
18 technical witnesses than some. I have seen them work really
19 well, although I think they are misunderstood sometimes, in
20 particular at this point in the cross. Would you like me to
21 poll the Commissioners, would you like to poll the
22 Commissioners yourself? What would you like?

23 CHAIRWOMAN SANDOVAL: I would be interested in
24 hearing what the other Commissioners say, and I will happy
25 to state where I am.

1 HEARING EXAMINER ORTH: All right. Commissioner
2 Engler?

3 COMMISSIONER ENGLER: I'm fine with Mr. Ames'
4 suggestion of a panel. Thank you.

5 HEARING EXAMINER ORTH: Commissioner Kessler?

6 COMMISSIONER KESSLER: I don't have strong
7 feelings one way or the other. I'm glad we didn't do the
8 panel during direct, but I don't have strong feelings on
9 cross.

10 HEARING EXAMINER ORTH: Madam Chair?

11 CHAIRWOMAN SANDOVAL: I'm open to the panel
12 option. I think I agree with Commissioner Kessler, you
13 know, I think the earlier proposal was different and would
14 have been different during direct. But at this point, it
15 seems like the panel may be the most efficient method and be
16 the easiest way for the Commissioners to get the remaining
17 information that we may need.

18 HEARING EXAMINER ORTH: All right. Thank you.
19 In that case, Mr. Ames, your request is granted. And, Ms.
20 Fox, I believe as a logical extension of that ruling, that
21 you and Mr. Baake may both cross-examine the panel and I, I
22 probably don't need to issue this warning, but if you would
23 avoid asking duplicative questions.

24 All right. Mr. Ames, whenever you're ready.

25 MR. AMES: Thank you. OCD calls Brandon Powell.

1 HEARING EXAMINER ORTH: Mr. Powell is still under
2 oath.

3 MR. AMES: Hello, Brandon. I can't see you. Are
4 you with us?

5 MR. POWELL: I believe so. Can you hear me and
6 see me now?

7 MR. AMES: Can hear you, can't see you.

8 MR. POWELL: Let me see if it will work. Can
9 y'all still hear me if my computer just froze?

10 MR. AMES: This is one of those technical issues
11 which I just downplayed.

12 MR. POWELL: My computer froze. I'm going have
13 to have to jump out and jump back in. I apologize.

14 MR. FELDEWERT: Mr. Ames, you jinxed yourself in
15 pointing out that we have had no technical difficulties with
16 our witnesses.

17 MR. AMES: I will say, if technical difficulties
18 persist, we will be happy to revert to the prior form of
19 presentation, but as I say --

20 CHAIRWOMAN SANDOVAL: I can see him.

21 MR. AMES: Great.

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BRANDON POWELL

(Previously sworn, testified as follows:)

DIRECT REBUTTAL EXAMINATION

BY MR. AMES:

Q. So please state your name for the record again and spell it for the court reporter?

A. Brandon Powell. B-r-a-n-d-o-n, Powell
P-o-w-e-l-l.

Q. And Brandon, you are the engineering chief for OCD; is that correct?

A. That is correct.

Q. Did you previously testify in this hearing?

A. Yes, I did.

Q. Has OCD prepared rebuttal testimony?

A. Yes, we have.

Q. Have we prepared a written form of that testimony?

A. Yes, we have.

Q. And what form is that?

A. We have prepared a spreadsheet to go over all the items we haven't taken, and we've also prepared a short PowerPoint to illustrate some of the items that we show on the spreadsheet.

Q. To orient the Commission to the spreadsheets -- let me ask you this first. The spreadsheets were served on

1 **the other parties yesterday evening?**

2 A. That is correct.

3 **Q. So let's orient the Commission to the**

4 **spreadsheets. How many spreadsheets are there?**

5 A. There are two.

6 **Q. And how are they presented? What are they**

7 **labeled, for instance?**

8 A. So they are presented as Exhibit 4C, which covers

9 Part 27, and Exhibit 4D, which covers Part 28.

10 **Q. And how are they arranged?**

11 A. They are arranged -- let me pull it up so I can

12 talk to it. They are arranged showing the line item on the

13 left, the citation of the rule that's being discussed, which

14 party presented the information, which topic it related to,

15 which proposed modification they were requesting, the OCD's

16 position on that topic, and the OCD witness best attributed

17 to discuss it.

18 **Q. Thank you. Now if I understand correctly, you**

19 **are going to present testimony on a few of the items on**

20 **those spreadsheets; is that right?**

21 A. That is correct.

22 **Q. And then stand for cross on the balance of it,**

23 **the balance of the spreadsheets?**

24 A. Yes, sir.

25 **Q. All right. So let's start with some items on**

1 **which the Commission -- excuse me -- on which the Division**
2 **found the testimony of the other parties compelling and**
3 **agrees to make some changes. So if you would, please start.**
4 **I believe your first line item might be Line 22 on the Part**
5 **27 spreadsheet; is that right?**

6 A. It's actually not lined for me, too, but it is in
7 the PowerPoint spreadsheet. Let me pull that up.

8 **Q. Then I will let you take it from here.**

9 A. So I've got two slides to share. It should be up
10 now. So the first two slides will go over Line 43 and 70.
11 We agreed to modifications for these lines. Specifically
12 this covers the maximize flare combustion efficiency, and
13 also adds components around representative in the reporting.
14 Jim Bolander will go through this more extensively in his
15 testimony on these two slides.

16 The next slide goes over Lines 85 and 87,
17 specifically in the reporting categories. And there will be
18 some proposed changes to the other category in the waste
19 reporting, and also some changes to the royalty reporting,
20 interest reporting, and I will go through those further
21 through my testimony.

22 **Q. Thank you. So now are we ready to move on to**
23 **Line Item 22?**

24 A. Yes, sir. So that's the -- so to orient, I will
25 start with the PowerPoint. The Line 22 we are specifically

1 looking at the provision where the Division is requiring
2 flare versus venting. And I just wanted to call the
3 Commission's attention to this that this was already in
4 rule, this intent.

5 In 19.15.18.12 where it currently has a statement
6 that the operator shall burn all gas produced if not used
7 under the casinghead gas provision for venting and flaring.

8 I would also point out while we are on this slide
9 and this rule, there was some discussion previously around
10 volumes that are being reported at 50 MCF versus any volume,
11 and I think that was specifically -- should have been
12 specifically related to the 129 and 141. For 115 reporting
13 and now what we are going to have under 115 B as proposed,
14 it would not have a minimum volume of 50 MCF, and that is
15 currently in the rule as well under that same provision and
16 report the estimated volume on a C-115.

17 This relates to gas that has been exempted from
18 the subsection, so there is not a limit requirement on that
19 gas. As a reminder, the rule in this dates back to 1972.

20 **Q. Brandon, are you prepared to move on to the next**
21 **slide, I believe it's Line 37; is that correct?**

22 A. Yes, and I'm going to swat -- switch over to the
23 spreadsheet for this one. Let me make sure I've got the
24 right exhibit up. I apologize.

25 **Q. There you go.**

1 CHAIRWOMAN SANDOVAL: Were the slides sent over,
2 or was it just the spreadsheets that were sent over?

3 MR. AMES: Madam Chair, just the spreadsheets.
4 We will move to introduce the PowerPoint as a demonstrative
5 aid at the conclusion of our presentation.

6 CHAIRWOMAN SANDOVAL: Okay. Thank you.

7 **Q. So Brandon, with respect to Line 37, this**
8 **concerns the Bradenhead test exception. What is the, where**
9 **does OCD stand on this issue?**

10 A. So the OCD on this one, because it was addressed
11 in testimony, we wanted to just reiterate the processes in
12 New Mexico on these. I think there is a couple of points
13 that should be pointed out. First off, during a Bradenhead
14 test, the intent is never to vent the tubing or the
15 production casing annulus. So the production stream is never
16 intended to actually be vented to atmosphere.

17 What this does is this tests the intermediate
18 annulus if applicable and surface annulus as applicable, which
19 are protection zones for the well to see if there is any
20 commingling of gas between those and the production string
21 or other issues identified in the well.

22 Typically this test lasts up to 30 minutes per
23 string, so if there is multiple strings this test could be
24 upwards of an hour and a half long if there is issues
25 identified. And this is an extremely important test not to

1 change as it detects mechanical integrity in the well
2 passively without the use of additional equipment, rigs,
3 those kinds of things.

4 **Q. Okay. Thank you. Let's move to Item 54, Part 27**
5 **spreadsheet, and this item concerns AVOs. What do you have**
6 **to say about this?**

7 A. So there is a lot of information here, but I
8 think the main points we wanted to point out is, one, I
9 think there was some misconception of what we were looking
10 for in this provision. I think previous testimony noted
11 Colorado just had some check boxes, that it was an audio-
12 visual and olfactory check, three checkmarks and then a
13 report if anything is found, that's really what is intended
14 for us as far as the inspections.

15 We feel that the operators are already doing
16 these inspections as testimony identified, already
17 identifying that if there is provisions -- and I should say
18 operators, prudent operators are already doing this. We
19 just want the ability to go ahead and check those records if
20 we find something to ensure it wasn't something longstanding
21 and that these inspections are being done properly.

22 **Q. Thank you. Let's move to Item 85.**

23 A. Before we move to 85, I believe I have a slide
24 77.

25 **Q. Oh, yes, I'm sorry. Slide -- Item 77, C-115s**

1 **and C-115 Bs; correct?**

2 A. That is correct.

3 **Q. Okay. Please continue.**

4 A. So let me get to that real quick.

5 So again I think there was some misconceptions or
6 maybe we weren't as clear as we needed to be on the 115 B
7 versus the 115. So we put together this slide to illustrate
8 some of our concerns.

9 In the table on the left are three current
10 property IDs in New Mexico. What these are are property ID
11 codes where the reporting goes against one code for multiple
12 wells in a single property. There is four here. The C-115
13 is in a production accounting form based on the concept of
14 taxable property. Making substantial changes to this form
15 could adversely affect SLO and TRD.

16 The multiple operators report multiple wells on
17 these 115s. An example of this, in this table for four
18 properties, there are roughly 1791 wells, with an unknown
19 number of associated facilities. OCD can't use the data in
20 these 115s to identify venting and flaring related to
21 specific wells or specific facilities, it's just lumped in a
22 total property.

23 Operators can't use the data on these 115s to
24 identify patterns and solutions to venting and flaring from
25 specific wells and facilities. OCD's proposed rule did not

1 expressly state that the C-115 B requires reporting on a
2 single well or single facility, but OCD clearly conveyed its
3 intent to require reporting on this basis.

4 To resolve that, the Division is going to propose
5 new language in Part 27 in 19.15.27.8.G(2). So this still
6 addresses Line 77, if anybody needs to reference.

7 So what we did is we added in the reporting
8 section that the operator shall report for each well or each
9 facility the volume of vented and natural gas and the volume
10 of flared natural gas, that way our intent is clear that we
11 want it for each well or each facility, that way we can link
12 it back to a specific item in time.

13 **Q. Thank you, Brandon. Are we ready to move down to**
14 **85?**

15 **A. Yes.**

16 **Q. So Item 85 concerns 8.G(2)(m), the "other"**
17 **category for reporting. What's the Division's position now?**

18 **A.** So the Division, after listening to testimony, it
19 was evident that there was confusion over this other
20 category and ability to link things in that we previously
21 removed as they weren't waste or couldn't be accurately
22 reported, so we really wanted to identify some boundaries on
23 the other. The other is to identify waste categories that
24 could be occurring or that the Division could identify in
25 the future.

1 So we added language to (m) for other waste as
2 defined in 19.15.2 NMAC that is not described above.

3 **Q. Thank you. Let's move on to Item 87, which is**
4 **the royalty owner reporting provision in 8.G(4).**

5 A. Okay. So I'm Item 87 for the royalty provision,
6 this is one that we identified that we are making some
7 modifications to after listening to testimony. We are
8 looking at adding language that the beginning of this
9 reporting is, we are asking that it be started January 2022
10 to allow operators some time to identify how they are going
11 to perform this reporting.

12 We also additionally agree with NMOGA that
13 overriding royalty interest owners do not require this
14 reporting and will exempt them from this requirement.

15 **Q. Great. And let's go to Item 95, which concerns**
16 **reporting releases that include liquids.**

17 A. Okay. And we have a slide on this one as well,
18 and it's going to expand into a bigger topic. I think there
19 was some confusion in this one, which is why NMOGA was
20 proposing to delete the 141. So we've got some additional
21 language that will cover this as well in our PowerPoint.
22 Let me pull that back up.

23 So again, I think there was confusion of the
24 Division's intent on this one. We were looking at using the
25 129 in lieu of the 141 for releases that only included gas.

1 And then we were looking at using a 141 in lieu of 129 for
2 releases that may include fluids because there will be some
3 remediation efforts in those.

4 So because of that, we are actually proposing two
5 different modifications to our proposed rule. The first one
6 being in 19.15.27.8.G(1)(a), we discovered we inadvertently
7 left out language allowing that the 129 be used in lieu of
8 the 141 in this portion.

9 So in blue we are proposing to add this language
10 here, that in lieu of -- filing a form 129 in lieu of a
11 C-141 except as provided by Subparagraph D of Paragraph 1 of
12 Subsection G of 19.15.27.A NMAC.

13 The next proposal is in that Subparagraph D, to
14 ensure clarify, we are clarifying it's for a release which
15 includes liquids during venting and flaring, that the
16 operator will file the 141 instead of the 129. I believe
17 the way NMOGA was phrasing it, they were confused in our
18 intent that an operator would file the 129 for the gas and
19 the 141 for the liquids portion. That wasn't our intent.
20 Our intent was filing one form, which if liquids are
21 included would be the 141 which would include both the gas
22 and the liquids.

23 And I think that would have a direct effect on
24 the implementation of 95 as I think it clarifies that the
25 141 would still be applicable.

1 **Q. Thank you, Brandon. Let's move over to Part 28.**
2 **I believe that you wanted to address the issue of the GIS**
3 **layer.**

4 A. Yes. I think there was some confusion of our
5 intent, or I want to ensure that our intent is clarified. I
6 think there was some suggestion that we could take releases
7 that are reported to us and apply this ourselves in lieu of
8 cementing a GIS flare for this information.

9 And just to clarify, I don't think this is
10 possible, one, because the pipelines could have confidential
11 requested on it, so it wouldn't be available to the public,
12 and we wouldn't be able to map those incidents directly to
13 that line.

14 And, two, we can't do it simply off of location
15 because there may be a pipeline corridor including multiple
16 pipelines where if you plotted just the single points, it
17 doesn't show you which one of those multiple pipelines it's
18 linked to. Or you could have a pipeline that's a couple of
19 miles long, or you may have multiple releases on that single
20 pipeline that you wouldn't be able to differentiate that it
21 was on that single pipeline, it could look like it's from
22 different sources when it's from a single source.

23 **Q. Thank you, Brandon.**

24 MR. AMES: OCD now calls Jim Bolander.

25 HEARING EXAMINER ORTH: Mr. Bolander is still

1 under oath.

2 JIM BOLANDER

3 (Previously sworn, testified as follows:)

4 DIRECT REBUTTAL EXAMINATION

5 BY MR. AMES:

6 Q. Jim, are you there?

7 A. Yes.

8 Q. Great. Could you please state your full name for
9 the record and spell it for the court reporter?

10 A. James Bolander. Last name is B-o-l-a-n-d-e-r.

11 Q. And Jim, you testified earlier in this proceeding
12 on behalf of OCD?

13 A. Yes, I did.

14 Q. Great. Why don't we jump right in. You have a
15 number of items that you are going to address. Let's start
16 with Part 27, Item 3 regarding phase definitions. What is
17 that?

18 A. Yeah, so --

19 Q. Go ahead, please.

20 A. I'm sorry, Eric. What I would like to do here is
21 address every one to three particular definitions that I
22 will talk about, because we have to talk about all three
23 relative to this particular, and that would be Line 3 with
24 the Citation 7.D for completion operations, Line 13, which
25 is 7.P for production operations, and Line 14, which is 7.Q

1 for separation flowback.

2 The way our current language works with those
3 three definitions, completion operations defines when
4 completion starts and then states that completion ends at
5 the end of separation flowback.

6 If we, you know, move to the separation flowback
7 stage, which is Line 14, you know, it states that separation
8 flowback begins, you know, when separation is feasibly
9 possible and ends at a time frame of 30 days.

10 And then Line 13, which is 7.P for production
11 operation begins at day 31 and then concludes at the end of
12 the life of the well.

13 Toward this, NMOGA had recommended that at the
14 end of the separation flowback, that a new term be start up
15 of production, which basically states that start up of
16 production begins with initial flowback and concludes with
17 continuous recoverable -- recovery of saleable gas from the
18 beginning of completion until there is continuous recovery
19 of any crude condensate or water produced.

20 The concern that OCD has in this is that there is
21 no delineation point made from one phase, completion, versus
22 to the next of production. This is key in our regulation as
23 each of these phases, completion and production, are spelled
24 out in Sections 27.8.C for completion operation, and 27.8.D
25 for production operations, in terms of key exceptions for

1 the rule.

2 I would also like to point out that the existing
3 language in 19.15.18.12 under casinghead gas, the production
4 operation is defined by a time frame of 60 days.

5 OCD feels like with our provisions that we have
6 added for offset gas which allow for additional completion
7 time and for exploration well, that any additional time past
8 the 30 days (unclear) capture.

9 Now I would like to move to Line 26, Eric.

10 **Q. Sorry, Jim, I was on mute. Let's move on to Line**
11 **26, which deals with 8.C(1) of WELC's and EDF's proposal for**
12 **reduced emission completions.**

13 A. Yes, thank you. The current language in the
14 current draft follows existing EPA Quad O and Quad Oa
15 language for completion flowback, specifically the initial
16 flowback stage and how you move from initial flowback to
17 separation stage.

18 The proposed language from WELC and EDF proposes
19 language from Colorado, specifically the Air Quality Control
20 Division and also reference and COG'S recent (unclear).

21 REPORTER: Can you repeat that response? You
22 were cutting out.

23 A. (Unclear.)

24 **Q. Jim, Jim, Jim. Hold on a second. The court**
25 **reporter didn't catch some of what you were saying.**

1 MR. AMES: So, Irene, could you let Jim know
2 where to start.

3 REPORTER: (Orients witness.)

4 A. Okay. I will move one step back. In the WELC
5 EDF proposed language, they are referencing Colorado
6 language from the Air Quality Control Division which would
7 also reference by the Colorado Oil and Gas Commission, which
8 requires capture of natural gas during initial flowback and
9 sent to a flare or control device.

10 EDF expert Tom Alexander indicated this can be
11 performed in most cases, and the examples that he cited were
12 primarily gas fields. And he did also state that in the
13 required language there is design for appropriate pressure
14 relief systems.

15 OCD recommends retaining the current language,
16 you know, and with the performance standard that we have set
17 forth in 27.8.E(1) on design of separation equipment to
18 ensure wells placed and into separation phase as soon as
19 possible to minimize the time during initial flowback.

20 As highlighted in our exhibit, our concerns are
21 three-fold; one, feasibility. Primarily, due to flow
22 conditions in certain types of wells resulting in slug flow
23 which prevent the capture of gas.

24 Second is the safety issue which depends on
25 correct design to prevent over-pressurization.

1 And third, we feel like there is a well type
2 perspective on being able to successfully do this.

3 As Tom mentioned in his example, the three cases
4 were primarily gas fields. I can concur with Tom on the
5 Fayetteville Shale. I have intimate knowledge of our
6 completions during that time frame and can say that what we
7 primarily did was we up-sized our production separators to
8 be able to handle the large volumes of fluid during early
9 flowback, therefore, we were able to reduce the initial
10 flowback from days to hours.

11 And subsequent reports either to EPA would show
12 that we were able to increase production by 16 million cubic
13 feet per average well during this technique. Our concern
14 with full wells is that, one, the high rates that will be
15 flowing back which could cause -- which could inherently
16 cause issues due to over-pressurization, as well as with the
17 high volumes of fluid and flood flow the feasibility of
18 capturing during this stage. Therefore we recommend that
19 our current language as a holistic issue be kept as is.

20 **Q. Thank you, Jim. Let's move to Item 43, which**
21 **concerns Section 8.E(3), and the language for flare**
22 **performance standards. Thank you.**

23 A. Thank you, Eric. Just moving to my hand copy
24 because it's easier for me to read. And in this we are
25 talking about flare performance standards, and in the

1 current language, OCD required complete and continuous
2 combustion.

3 NMOGA has recommended that the language be
4 changed to ensure proper combustion of gases. OCD
5 understands that current language may imply 100 percent
6 combustion which was not the intent of our language. But we
7 are concerned that proper combustion has no defined
8 acceptable range of efficiency.

9 What OCD would like to offer is to change the
10 phrase to that maximizes flare combustion efficiency. This
11 language in research was pulled from World Bank, from their
12 website in which they just discuss their no -- their zero
13 flaring recommendation.

14 **Q. Thank you, Jim. Let's move on to Item 70, which**
15 **is a very long citation. It is Section 8.G(1)(b) Roman**
16 **numeral iv, and it concerns the nature of the gas analysis**
17 **that is required. Could you explain OCD's position on this?**

18 **A.** Yes. Our original language was to specify
19 compositional analysis of vented and flared gas. And the
20 reason being, and it was stated in testimony, you know, for,
21 for many of us in the industry when we talk about pulling a
22 gas sample, we know exactly what we are looking for in terms
23 of that, and compositional analysis is typically the
24 first -- it's what we think of, but we wanted to be clear
25 that that's what our intent was.

1 NMOGA recommended that we change compositional to
2 representative. During the hearing, Commissioner Engler
3 made a recommendation to put some sideboards around
4 representative. And what we would like to propose is that
5 language be added to this section, that representative of
6 the well or facility, and hope that this may clarify that
7 what we are not looking for is, you know, during an
8 emergency or malfunction, is for operators to go out and
9 attempt to obtain a gas sample. But if they have a
10 representative sample from that well or from that facility,
11 that is what we are really looking for to give us an
12 estimate of what type of event is occurring.

13 **Q. Thank you, Jim. Let's move on to Item 79, which**
14 **is Section H -- excuse me -- Section 8.G(2)(d)(e) and (f).**
15 **This concerns NMOGA's proposal to delete certain categories,**
16 **certain low pressure categories from the reporting**
17 **requirement. What is OCD's position on this proposal by**
18 **NMOGA?**

19 A. Okay. Our explanation is quite long, and I'm
20 sure I will probably get a little wordy as well here.

21 NMOGA has recommended that we delete three
22 categories in this particular section right here, and that
23 was d, e and f for downhole maintenance, manual liquid
24 unloading, and uncontrolled storage tanks.

25 Our current draft includes these categories to be

1 recorded and also to be counted toward gas loss. NMOGA's
2 recommendation is that they be deleted due to the accuracy
3 of estimated volumes, and they are also considered low
4 pressure and should not be considered waste.

5 OCD recommends that these categories remain, and
6 that there are valid estimation methods used by (unclear).

7 (Audio difficulties.)

8 HEARING EXAMINER ORTH: Excuse me. I'm sorry.

9 A. The definition --

10 HEARING EXAMINER ORTH: Mr. Bolander?

11 A. -- is considered waste --

12 HEARING EXAMINER ORTH: Mr. Bolander, hold on a
13 second.

14 MR. AMES: Jim. Jim. Jim. Jim.

15 A. In addition.

16 **Q. Jim, let me pause.**

17 HEARING EXAMINER ORTH: I don't think he can hear
18 us for some reason. Mr. Bolander, I'm sorry, you are
19 breaking up.

20 THE WITNESS: Yes.

21 HEARING EXAMINER ORTH: Sometimes it's the
22 ambient noise from Mr. Ames.

23 THE WITNESS: Hello? Would it help if I took the
24 the video off?

25 HEARING EXAMINER ORTH: I think two things would

1 help, if you took the video off and if Mr. Ames would
2 consistently mute while you are speaking.

3 THE WITNESS: I took my video off, if that helps.
4 Is that better?

5 HEARING EXAMINER ORTH: It is better. Irene,
6 would you tell us where we --

7 REPORTER: (Reorienting witness.)

8 A. So almost starting over, so please bear with me.
9 Am I coming through clear now?

10 HEARING EXAMINER ORTH: Yes, you are. If you
11 would start over, that would be terrific. Thank you.

12 A. Okay. Thank you. This particular category,
13 reporting the three categories d, e and f represent downhole
14 maintenance, manual liquid unloading, and uncontrolled
15 storage tanks. OCD's current draft includes these
16 categories be recorded and also be counted towards gas loss.

17 NMOGA recommends that these sources be deleted
18 due to accuracy of estimated volumes and also considered low
19 pressure and should not be considered waste. OCD recommends
20 that these categories remain in the rule. We feel like
21 there are valid estimation methods that can be used by
22 operators, and that in many -- and in these categories there
23 is potential for excess emissions which is considered waste.

24 In addition, OCD has the authority to require
25 reporting in order to prevent waste that is now in the

1 present, and also in the future, and to understand what
2 event -- what volumes of venting and flaring are occurring
3 at wellsite facilities and in the state.

4 I will admit, over the last couple of days there
5 was much debate over the accuracy of these categories
6 presented by all parties. I would like to address a couple
7 of the categories, the first being manual liquid unloading.
8 And I would like to reference OCD's Exhibit 46, which is the
9 United Nations Climate and Clean Air Coalition Technical
10 Guidance Document Number 7, Well Venting for Liquid
11 Unloading.

12 This was a coalition of industry experts from
13 around the world evaluating methane sources within oil and
14 gas industry that came out with a set of technical guidance
15 documents to guide these operators in reducing their
16 emissions. My company, Southwestern Energy, was one of the
17 companies participating in this.

18 In this document it cites the use of engineering
19 calculations found at EPA Subpart W 98.233 as a valid
20 methodology. And in addition to that, the technical
21 guidance document cites two other sources as references.
22 The first is a 2012 report by API and ANGA characterizing
23 pivotal sources of methane emissions from natural gas
24 production in which API and ANGA used engineering
25 calculations, along with actual well data submitted by

1 companies to compare to EPA's data.

2 In addition, there is a reference to an EPA
3 Natural Gas Star Report by Anadarko which highlights their
4 best management practices for various technologies including
5 plunger lift versus manual unloading, and which, in their
6 document, or in their presentation they utilize the
7 engineering calculations to highlight the production uplift
8 and economics of moving away from manual unloading to
9 plunger lift.

10 The second category I would like to highlight is
11 uncontrolled storage tanks. It has been highlighted by
12 stakeholders that there are methods to estimate controlled
13 storage tanks of the volumes of venting and flaring. The
14 use of modeling software such as ProMax and ENP Tanks are
15 used in permitting, but also I would like to highlight how
16 they are also used in design of the facilities.

17 First they are used in the design of separation
18 stages, you know, which is most successful and being able to
19 stabilize the hydrocarbons to improve surface recovery of
20 liquids but also minimize flashing; and, second, the design
21 of the control equipment, such as vapor recovery unit to
22 capture natural gas for disposition.

23 Utilizing these softwares allow engineers to
24 design vapor recovery units to capture, compress the natural
25 gas and put into sale. As a reference to this, and with all

1 the testimony that we have heard, OCD also has Exhibit 45,
2 which is another UN Climate and Clean Air Coalition
3 Technical Guidance Document Number 6 on unstabilized storage
4 tanks which highlights much of what's been discussed, as
5 well as the methane guiding principles on flaring which
6 highlights the need for potential two stages of separation
7 to minimize flashing.

8 Eric, I think we are ready to move to Part 28.

9 Q. Yes, let's go -- thank you, Jim. Let's move on
10 to Part 28. I can't see you, but I didn't have a visual
11 cue, so thank you. So let's move to Part 28. We are going
12 to talk about Line 17 which concern operations plan,
13 operations planning, and it's 8.C(1) in Part 28.

14 A. Yes. 28.C or Part 28 or Part 28.C references
15 operations performance standards for natural gas gathering
16 systems. C(1) is the requirement for midstream operators to
17 provide an operations plan to the Division that is designed
18 to minimize waste of natural gas from a natural gas
19 gathering system.

20 NMOGA recommends that this plan be modified to
21 become a mitigation plan filed by operators when they become
22 out of compliance with the natural gas capture requirements.

23 OCD feels that its approach is to manage and
24 minimize waste, and that our approach is a proactive
25 approach, and that an operations plan, which may include

1 multiple components as suggested by OCD engages a company
2 across multiple chains to manage and operate a gathering
3 system to minimize waste and feel like a more proactive
4 approach up front is warranted more so than a mitigation
5 plan after issues have been identified.

6 And that concludes my comments, Eric.

7 **Q. Thank you, Jim.**

8 MR. AMES: That concludes our direct rebuttal
9 testimony. And I would move the admission of OCD Exhibits
10 4C and 4D.

11 HEARING EXAMINER ORTH: Thank you, Mr. Ames. Let
12 me pause for a moment and see if there are any objections.

13 (No audible response.)

14 HEARING EXAMINER ORTH: OCD Exhibits 4C and 4D
15 admitted.

16 (Exhibits 4C and 4D admitted.)

17 MR. AMES: We also move the admission of OCD
18 Exhibit 4E, which is demonstrative aid, and I have sent that
19 to the Commission and all parties a bit earlier.

20 HEARING EXAMINER ORTH: Okay, thank you.

21 Objection to the demonstrative aid?

22 (No audible response.)

23 HEARING EXAMINER ORTH: 4E is admitted.

24 (Exhibit 4E admitted.)

25 MR. AMES: Thank you. The witnesses are now

1 available for cross.

2 HEARING EXAMINER ORTH: All right, thank you.
3 Mr. Feldewert, do you have questions of Mr. Powell or Mr.
4 Bolander based on their testimony -- oh, Ms. Fox is raising
5 her hand. Ms. Fox?

6 MS. FOX: Thank you, Madam Hearing Officer, may
7 we have ten minutes after this testimony to develop, to just
8 dot our i's and cross our t's on cross since this is so
9 hurried? You are muted.

10 HEARING EXAMINER ORTH: Sorry, let's come back at
11 12:10.

12 MS. FOX: Thank you.

13 CHAIRWOMAN SANDOVAL: Maybe, Ms. Orth, before we
14 go, can we just clarify, are we going to take a break for
15 lunch, or was that supposed to have been before we started
16 at 11?

17 HEARING EXAMINER ORTH: What's your pleasure,
18 Madam Chair?

19 CHAIRWOMAN SANDOVAL: Well, I didn't personally
20 eat lunch, so maybe -- I could be quick. You guys can watch
21 me eat.

22 HEARING EXAMINER ORTH: Why don't we just break
23 until 12:30 then?

24 CHAIRWOMAN SANDOVAL: That works.

25 HEARING EXAMINER ORTH: All righty. Thank you.

1 (Recess taken.)

2 HEARING EXAMINER ORTH: Let's make sure we have
3 Mr. Powell and Mr. Bolander. I see Mr. Powell and I see Mr.
4 Bolander. Mr. Feldewert -- oh, there you are. The pictures
5 move around on my screen. Go ahead, please.

6 CROSS-EXAMINATION OF PANELIST BOLANDER

7 BY MR. FELDEWERT:

8 Q. Let's see, how do we -- I guess it's you, Mr.
9 Bolander. Can you hear me okay?

10 MR. BOLANDER: Yes, I can.

11 Q. I'm going to go to your favorite topic which is
12 on Page 2, Line 8. Do you know what that is?

13 MR. BOLANDER: Yes.

14 Q. Emergency; right?

15 MR. BOLANDER: Yes, sir.

16 Q. Okay. Now we are dealing here with, I believe,
17 Subpart 6, that's what I'm looking at, in Line 8. Is that
18 right, Mr. Bolander?

19 MR. BOLANDER: Yes, I was also pulling up the
20 actual language from the rule itself.

21 Q. So it's 27.8.7.G(6), it's the definition of
22 emergency, and I want to ask you about your statements
23 related to that, okay?

24 MR. BOLANDER: All right.

25 Q. You state in the last line of your comments that

1 the OCD's definition of emergency allows three emergencies
2 in 60 days. Do you see that?

3 MR. BOLANDER: Yes.

4 Q. That's not correct, is it, Mr. Bolander?

5 MR. BOLANDER: Yes, it is. In the rule it says
6 three or more emergencies within a single reporting area.

7 Q. Wouldn't that only allow two to be excused?

8 MR. BOLANDER: Yes, in reading the language, I
9 agree.

10 Q. Okay. All right. So two. Now, you indicate
11 that, in your opinion, the OCD is more generous than the
12 BLM's definition.

13 MR. BOLANDER: Yes.

14 Q. When you say the BLM's definition, which rule are
15 you talking about, which BLM rule?

16 MR. BOLANDER: It would be 3179 103. It would be
17 C.5.

18 Q. Okay.

19 MR. BOLANDER: Which states -- yeah.

20 Q. Hold on a second. Can I have sharing capability,
21 please?

22 MR. BOLANDER: Yes.

23 MR. FELDEWERT: Mr. Coss is running this thing.
24 Mr. Coss, can I have sharing capability? Thank you, sir.

25 MR. COSS: You have it now, Mr. Feldewert.

1 MR. FELDEWERT: Thank you very much.

2 Q. I put the definition you referenced up on the
3 screen, do you see that?

4 MR. BOLANDER: Yes, I do.

5 Q. Now, the way the OCD's rule is written, the
6 emergency exemption or issue extends to the operator, not a
7 particular geographic area; right, Mr. Bolander?

8 MR. BOLANDER: It does within the reporting area
9 the event occurred.

10 Q. Good point.

11 MR. BOLANDER: So not statewide.

12 Q. So it would be, for example, an operator in
13 the -- I'm just going to say in the Permian area, which is
14 the southeast area; right?

15 MR. BOLANDER: Yes.

16 Q. And it would apply to all the operator sites in
17 the entire Permian southeast area?

18 MR. BOLANDER: Yes.

19 Q. And if the operator was out of the northwest, he
20 would be out of the San Juan Basin?

21 MR. BOLANDER: Correct.

22 Q. And it would apply to all the operator's entire
23 operations in that San Juan Basin area?

24 MR. BOLANDER: Correct.

25 Q. Now, when you look at the BLM definition, it's

1 more concise when it comes to the geographic area, is it
2 not, Mr. Bolander?

3 MR. BOLANDER: Yes, it is, with the three
4 specific areas.

5 Q. It says, for example, in C(5) in applying this
6 emergency exemption. A situation on a lease unit or a
7 communitized area.

8 MR. BOLANDER: Yes.

9 Q. Don't you agree that it would be appropriate to
10 limit this particular section to a particular site or area
11 like the BLM has done?

12 MR. BOLANDER: What the BLM did by listing all
13 three, communitized areas can be quite large, for one.

14 Q. Hold on, Mr. Bolander. A communitized area?

15 MR. BOLANDER: Yes.

16 Q. You think that's quite large?

17 MR. BOLANDER: It can be.

18 Q. Most of the time it's not, though; right?

19 MR. BOLANDER: Normally. It is typically larger
20 than a lease, but less than some of those large units I have
21 seen in some of the federal leases.

22 Q. Okay. But it doesn't lump all three together, it
23 says, lease, unit or communitized area.

24 MR. BOLANDER: Yes.

25 Q. So in other words, you would to have, this

1 provision would apply to three or more emergencies on a
2 lease.

3 MR. BOLANDER: Within a 30 day period --

4 Q. Okay.

5 MR. BOLANDER: -- where --

6 Q. And it says or on a unit; right?

7 MR. BOLANDER: Yes.

8 Q. Or, as you pointed out, on a communitized area?

9 MR. BOLANDER: Correct.

10 Q. Okay. Now I want to talk about your comment on
11 Page 2, Line 15.

12 MR. BOLANDER: Yes.

13 Q. This deals with NMOGA's proposed change to the
14 definition of venting. Correct, Mr. Bolander?

15 MR. BOLANDER: Correct.

16 Q. Okay. And NMOGA's proposed change was to adopt
17 what Colorado did.

18 MR. BOLANDER: Correct.

19 Q. Which I have up here on the screen. Can you see
20 that?

21 MR. BOLANDER: Yes, I can.

22 Q. Okay. Now, you have suggested that NMOGA has not
23 identified any type of equipment excluded by -- I will
24 just -- referring to this definition; right?

25 MR. BOLANDER: Correct.

1 Q. That is not also excluded in the OCD rules?

2 MR. BOLANDER: Based on what we see here, we feel
3 like that we captured a greater data set in both A -- 8.A or
4 8.B, 8.C and 8.D.

5 Q. Okay. Now, how are -- I'm looking at the
6 definition, I'm looking at Subpart B. Can you tell me where
7 unintentional leaks that are not the result of inadequate
8 equipment design is captured in OCD's rule?

9 MR. BOLANDER: It is not captured in the rule.

10 Q. It's not?

11 MR. BOLANDER: No.

12 Q. Okay. That one is not. Then the next one talks
13 about, under this natural gas escaping from downstream of a
14 tank, do you see that?

15 MR. BOLANDER: Yes, I do.

16 Q. Okay. Now, tanks, emissions from tanks are
17 allowed as an authorized, quote-unquote, venting, right,
18 under Subpart D of the Division's rule?

19 MR. BOLANDER: Correct.

20 Q. But, Mr. Bolander, it's counted against the
21 operator when you are in the process of calculating the gas
22 capture percentage?

23 MR. BOLANDER: Only if it is uncontrolled and
24 uncontrolled in a situation, for example, thief hatches, or
25 even if it's controlled and thief hatches -- if thief

1 hatches are open or damaged if routed to a flare or a
2 controlled device. So there are specific reasons for
3 counting it in the reporting section.

4 Q. Have you read the reporting section?

5 MR. BOLANDER: Yes.

6 Q. Now, part of that reporting section is done based
7 on the categories in G(2); correct?

8 MR. BOLANDER: Correct.

9 Q. If I go to G(2), I'm on NMOGA's -- OCD's Exhibit
10 A, go down to G(2), it just says uncontrolled storage tanks.
11 Do you see that?

12 MR. BOLANDER: Correct.

13 Q. So operators are expected to report on a monthly
14 basis the emissions from uncontrolled storage tanks?

15 MR. BOLANDER: Correct.

16 Q. And uncontrolled storage tanks is not excused
17 from the gas capture calculation when you get to that part
18 of the rule, is it, Mr. Bolander?

19 MR. BOLANDER: You are correct.

20 Q. Okay. So even if it's unavoidable, as it is in
21 uncontrolled tanks, it's counted against the operator when
22 you get to the gas capture percentage?

23 MR. BOLANDER: Yes, it is.

24 Q. Whereas Colorado, Mr. Bolander, as we saw in the
25 prior definition, their oil and gas association does not

1 regulate the emissions from uncontrolled tanks. Isn't that
2 true?

3 MR. BOLANDER: If you pull it back up, it did
4 mention in the case where tanks, where there was
5 insufficient -- where separation equipment was of
6 insufficient size, which would be C(2).

7 Q. There are some --

8 MR. BOLANDER: Yes.

9 Q. -- so let's assume, Mr. Bolander, that an
10 uncontrolled tank in Colorado meets the requirements here in
11 C, Subpart C(1), (2) and (3).

12 MR. BOLANDER: Correct.

13 Q. In that case, those emissions are not regulated
14 by the Colorado Oil and Gas Association.

15 MR. BOLANDER: In Colorado, they're not.

16 Q. And instead they are regulated -- or am I
17 correct, Mr. Bolander, in stating that in Colorado, these
18 types of low pressure emissions in uncontrolled tanks are
19 regulated by the Colorado Environment Department under their
20 emissions department?

21 MR. BOLANDER: In this case they chose to do so,
22 but in other parts of the rule they adopted by reference
23 some of those rules.

24 Q. The Colorado Environment Department.

25 MR. BOLANDER: Yes.

1 Q. Not the Oil and Gas Association?

2 MR. BOLANDER: Yes.

3 Q. Am I saying that -- is that the right term,
4 Colorado --

5 MR. BOLANDER: Colorado Air Quality Control.

6 Q. Okay. And with respect to this definition of
7 venting, this was adopted by what Colorado agency?

8 MR. BOLANDER: The Colorado Oil and Gas
9 Commission, better known as COGC.

10 Q. COGC, I'm sorry, I knew I was saying that wrong.
11 And that would be the equivalent of the Oil Conservation
12 Division or Commission here in New Mexico?

13 MR. BOLANDER: Yes, it would be.

14 Q. Okay. Thank you. I want to ask about your
15 comment on Page 4, Line 33 -- yeah, either line or row,
16 whatever you want to call it. This deals with another
17 favorite topic of yours and it is introduction of oxygen as
18 a result of commissioning of equipment; right, Mr. Bolander?

19 MR. BOLANDER: Correct.

20 Q. I'm trying to understand what you are saying
21 here. Can you please explain to me what you are saying in
22 your comment? First I want you to read it.

23 MR. BOLANDER: Right, thank you. Please, thank
24 you.

25 Q. Let me know when you're ready.

1 MR. BOLANDER: Okay.

2 Q. I want to apply this to a circumstance you and I,
3 I believe, talked about before, but I want to make sure
4 nothing has changed.

5 MR. BOLANDER: Correct.

6 Q. We had a circumstance you and I spoke about
7 previously, discussed previously where an operator would be
8 commissioning equipment, and as part of that commissioning
9 operation would be introducing air into the system.

10 MR. BOLANDER: Correct.

11 Q. Okay. We call that purging, I guess?

12 MR. BOLANDER: Yes.

13 Q. And that is a common and necessary practice;
14 right, Mr. Bolander?

15 MR. BOLANDER: Correct.

16 Q. And as part of that purging you are going to
17 introduce oxygen into the system.

18 MR. BOLANDER: Yes.

19 Q. Okay. Now, are you saying here that the venting
20 and flaring that would be necessary -- I should say venting
21 or flaring that would be necessary from the introduction of
22 oxygen into the system in that circumstance would not be
23 counted against the operator when it comes to the gas
24 capture percentage? That's what I'm unclear about.

25 MR. BOLANDER: Right. In our language in 8.B, we

1 added a little bit of language, you know, from your -- from
2 NMOGA's recommendation to state for as long as necessary to
3 purge the produced impurity.

4 **Q. Thank you, sir.**

5 MR. BOLANDER: And from that language, it is our
6 intent that if done correctly, that volume of venting and
7 flaring which is necessary to remove the O2 from
8 commissioning would be allowed under -- as an exception, and
9 in this case, up to that point would not count towards your
10 gas capture. That was my testimony the other day and
11 remains.

12 **Q. Thank you. So now can you tell me what language**
13 **in the Division's current rule -- and we'll go through it**
14 **here, accomplishes that intent?**

15 MR. BOLANDER: Are we moving to the reporting
16 section?

17 **Q. Whatever we need to move to in addition that**
18 **intent?**

19 MR. BOLANDER: Well, the first intent was in the
20 exception section, which would be 27.8.D(1), which I read
21 from, and the corresponding recording would be in 27.8.G(2),
22 and I believe you are probably referring to H where we
23 have --

24 **Q. I'm looking on the screen, yes.**

25 MR. BOLANDER: Yes, H, we have i, or Roman

1 Numeral (i) where we will ultimately exempt those volumes
2 from gas capture.

3 **Q. That would be 27.8.H --**

4 MR. BOLANDER: One.

5 **Q. I'm sorry, hold on. Back up. 27.8.G(2)(h) Roman**
6 **number (i)?**

7 MR. BOLANDER: Correct. And then Roman Numeral
8 ii is O2 concentrations that do not meet gathering pipeline
9 quality specs.

10 **Q. Okay.**

11 MR. BOLANDER: And the intent here is to capture
12 the oxygen levels that would have been introduced in other
13 events that have been addressed such as foam air, microlift,
14 you know, such as that. I believe that the intent of the
15 way we wrote the language in 27.8.D(1), which allowed for
16 that time period to -- where it would be allowed during
17 commissioning takes those volumes out of the calculation.

18 **Q. How? That's what I don't see, Mr. Bolander. How**
19 **is that done in the calculation that accomplished the gas**
20 **capture percentage which are in 27.9.B, how is it done?**
21 **Because I don't see it.**

22 MR. BOLANDER: Okay. Well, our intent --
23 understand. You know, our intent, if you look at everything
24 that is listed in 27.8.D, and I can even add 8.B, C and D, a
25 number of those involves which are exceptions, a number of

1 them we are not asking to be reported under G(2). One
2 reason was to accommodate --

3 **Q.** **I understand. Now hold on, Mr. Bolander. My**
4 **question relates to oxygen that's introduced into the system**
5 **as a result of commissioning operations and similar**
6 **operations, how is that activity and the venting and flaring**
7 **required as a result of that removed from the equation that**
8 **results in the gas capture percentage?**

9 MR. BOLANDER: In my opinion, the way it is
10 written, the gas vented during commissioning is not reported
11 under this category in G(2)(h) little i 2, only other
12 volumes of oxygen that have been introduced.

13 **Q.** **Would you agree with me that there is no language**
14 **in H.2 that differentiates oxygen concentrations based on**
15 **the activity that caused the oxygen to become -- to get**
16 **into the system?**

17 MR. BOLANDER: Yes. Reading it, it does not
18 expand on the required reporting.

19 **Q.** **Okay. But that's the intent, right, not to**
20 **penalize operators as a result of oxygen getting into the**
21 **system because of those activities?**

22 MR. BOLANDER: Yes, upon commissioning.

23 **Q.** **Okay. Mr. Bolander, you talked about 27.8.D as**
24 **in David. I think I have it up on the screen.**

25 MR. BOLANDER: All right. Thank you.

1 **Q. These are authorized venting and flaring events?**

2 MR. BOLANDER: Yes.

3 **Q. Why are they authorized, Mr. Bolander?**

4 MR. BOLANDER: They are authorized because, you
5 know, in many cases they are required for safe operation.
6 In case, you know, in case of an emergency or malfunction,
7 in case of, you know, pertinent activities such as liquid
8 unloading for maintenance, to, you know, reduce the
9 pressure, and in many cases the way of doing that is to
10 release the gas either through venting or flaring.

11 **Q. Why is that an excused venting and flaring event?**

12 MR. BOLANDER: Because it is a, as we'll say, a
13 normal part of operations.

14 **Q. A normal part of operations, a necessary part of
15 operations?**

16 MR. BOLANDER: In many cases, yes, however many
17 of these can be engineered out.

18 **Q. But the way -- the cases that you have listed
19 here in D(2), those would be allowed events; right?**

20 MR. BOLANDER: Allowed events.

21 **Q. Because they are part of normal operations?**

22 MR. BOLANDER: Correct.

23 **Q. And they are necessary?**

24 MR. BOLANDER: Necessary, you know, I don't
25 think, I mean, it's a simple yes or no, and the reason being

1 is, in many cases they are necessary, but in some of the
2 situations that you have listed here can be engineered out
3 of being a necessary method for venting or flaring.

4 **Q. And maybe sent to a sales line?**

5 MR. BOLANDER: They can.

6 **Q. They can?**

7 MR. BOLANDER: They can. There are -- there are
8 cases where, for example, wells that have loaded up
9 depending on your line pressure, if you're on a low pressure
10 system, there have been cases where you can unload a well
11 directly into a sales line if it's a low pressure system.
12 Is it as successful as unloading to atmosphere, no, but it
13 can be done. In addition to that --

14 **Q. Did you do that, Mr. Bolander?**

15 MR. BOLANDER: Did I do that?

16 **Q. Did your company do that?**

17 MR. BOLANDER: Not in every well, no, but in
18 cases where we had higher pressure wells that loaded up due
19 to an issue such as high line pressure or we were able to
20 build right back up, you were able to unload them or bring
21 them back on line directly into the sales system without any
22 issues.

23 **Q. But would you agree with me that there is some**
24 **venting that occurs as a result of liquids unloading even if**
25 **you use best management practices?**

1 MR. BOLANDER: Yes.

2 Q. Okay. And that can't be avoided; right, Mr.
3 Bolander?

4 MR. BOLANDER: It can be avoided if you look at
5 the type of well that you have and you explore other methods
6 of artificial lift, in many cases in gas wells the use of
7 gas lift, pumping units, various design can eliminate
8 venting and flaring to zero.

9 Q. But with manual liquids unloading, in
10 circumstances where you need to do manual liquids unloading,
11 there is some necessary venting; right, Mr. Bolander?

12 MR. BOLANDER: Yes.

13 Q. In fact it provides a beneficial use, does it
14 not, of pushing the gas, the liquids up?

15 MR. BOLANDER: Yes, I mean your engineer did a
16 very good job the other day of going through the process and
17 I agree with the process itself.

18 Q. Now, what about the other categories in here, why
19 are they authorized to be flared or vented?

20 MR. BOLANDER: In, you know, many cases, you
21 know, from an exploration well, the need for evaluation,
22 we have listed categories for, you know, normal operations
23 such as gauging a tank, floating out liquids, these are all
24 normal operations. You know, one of the recommendations,
25 you know, we made from a recommendation that NMOGA submitted

1 was in, I guess, 4C, that it's necessary for all repair and
2 maintenance.

3 So, you know, many of these have purposes for
4 doing so, but there is also methods of reducing the pressure
5 prior to, you know, some of these operations, specifically,
6 for example, repair and maintenance, ways of, prior to
7 blowing down, to minimizing your line pressure prior to
8 doing so.

9 Q. But the actual venting that occurs during those
10 activities is unavoidable; right, Mr. Bolander?

11 MR. BOLANDER: Yes.

12 Q. Now, can we agree that these categories as you
13 look through these, if done with proper management
14 practices, does not constitute surface waste?

15 MR. BOLANDER: In these -- in most cases there
16 are -- the intent here that has been normal operations,
17 these are methods to operate an oil and gas well for a
18 facility.

19 However, there are instances of excess emissions
20 that occur in any one of these categories. And the only way
21 to --

22 Q. What are you looking at, Mr. Bolander?

23 MR. BOLANDER: I'm -- what?

24 Q. Right now. What are you looking at?

25 MR. BOLANDER: The screen and my notes.

1 Q. Oh, okay. My question to you is can we agree
2 that these, that these that we see here in Subpart D, and
3 when they are done with proper protocols, that they
4 constitute emissions or flaring that do not constitute
5 waste.

6 MR. BOLANDER: If they can be captured for
7 beneficial use using other methods, then I do think they can
8 be categorized as waste.

9 Q. Huh, okay.

10 MR. BOLANDER: An example was the liquid
11 unloading of considering artificial lift technologies.

12 Q. Let me ask you this, Mr. Bolander. Can we agree
13 that all oil and gas emissions don't constitute waste?

14 MR. BOLANDER: Yes.

15 Q. Okay. I want to take you to what's been
16 previously identified as Slide 83 in NMOGA's Exhibit 4A. Is
17 this a slide that you put together, Mr. Bolander?

18 MR. BOLANDER: Yes, it was.

19 Q. Okay. Now, this indicates why you determined to
20 delete certain -- I'm sorry -- certain categories. I don't
21 know what happened there, hold on.

22 MR. AMES: Mr. Feldewert, just a word here. Mr.
23 Bolander did not decide the leak categories, OCD did.

24 Q. Mr. Bolander, did you create this slide?

25 MR. BOLANDER: Yes, I did.

1 Q. Is this your language?

2 MR. BOLANDER: Yes, it is.

3 Q. Mr. Bolander, when you put this slide together,
4 this explains why you deleted certain categories that had
5 formerly been in Subpart G(2); is that correct?

6 MR. AMES: Objection. Mr. Bolander did not
7 delete categories in the rule. This is OCD's rule, not Mr.
8 Bolander's.

9 HEARING EXAMINER ORTH: Mr. Feldewert, there
10 really is a distinction between OCD and this witness.

11 Q. Mr. Bolander, does this slide identify why the
12 OCD deleted certain categories that had formerly been in
13 G(2)?

14 MR. BOLANDER: Yes.

15 Q. Okay. And can you list for me the reasons
16 reflected on here for why the OCD deleted certain categories
17 from G(2)?

18 MR. BOLANDER: Yes. There were three
19 categories -- when we looked at the original July draft, we
20 wanted to step back, take a look, one, were there categories
21 that we could combine to reduce the number of reporting
22 categories, which you can see here we did that with
23 maintenance and malfunction.

24 And then in drilling operations and completion
25 operations, for -- you know, there, most of that there is no

1 separation at either facility or in most cases with drilling
2 operations, no separation and/or pipeline for ability to use
3 for beneficial use, it would not be considered waste.

4 Completion operations, I know you have heard my
5 testimony --

6 **Q. Yeah.**

7 MR. BOLANDER: -- on initial flowback. You know,
8 Bradenhead and package linkage tests are two tests that are
9 required to test wellbore integrity. In most cases the gas
10 released is small. I recognize it as too small to measure,
11 but more in the case of how those tests are performed, if
12 you are unable to capture those volumes for use in that
13 case.

14 **Q. So they would not be waste?**

15 MR. BOLANDER: Correct.

16 **Q. Would not be surface waste. So I've got too**
17 **small to measure, that would not be surface waste. Is there**
18 **another reason you have listed on the here is that there was**
19 **no credible method of estimation?**

20 MR. BOLANDER: Yes. And that would be in the
21 venting of pneumatics if they were venting in excess of
22 design specifications. There are methodologies to measure,
23 however, they are quite expensive and the equipment to do so
24 are not readily available.

25 As you heard yesterday, you know, some of this

1 equipment, such as inline metering were used in the UT
2 studies, but that's not something that's readily available
3 to determine for, you know, pneumatics across, you know,
4 a (unclear).

5 Q. Okay. So you took these categories out because
6 they represent circumstances, Mr. Bolander, where the volume
7 was too small to measure?

8 MR. AMES: Asked and answered.

9 Q. Is that right, Mr. Bolander.

10 MR. AMES: Objection; ask and answered.

11 HEARING EXAMINER ORTH: Yeah, that's sustained.
12 We've had a lot of discussion on that.

13 MR. FELDEWERT: I would like to make my record.

14 HEARING EXAMINER ORTH: I believe the record has
15 been made, Mr. Feldewert. Please move on.

16 MR. FELDEWERT: All right.

17 Q. Mr. Bolander, am I correct that the way the
18 Division drafted their rule is that they started with the
19 proposition that all emissions constitute venting or
20 flaring?

21 MR. BOLANDER: Could you restate that? I'm not
22 quite sure I understand what you are trying -- what I'm
23 supposed to answer on.

24 Q. You are familiar with the Division's rule, right,
25 Mr. Bolander?

1 MR. BOLANDER: Yes, I am.

2 Q. Does the Division's rule start with the
3 proposition that all emissions constitute either a venting
4 or flaring event?

5 MR. AMES: Objection, the question is confusing.
6 The witness has already stated that it's confusing, yet
7 counsel simply repeats the question.

8 HEARING EXAMINER ORTH: All right. Mr.
9 Feldewert, would you rephrase that, please? I'm not sure I
10 understood where you were going, either.

11 Q. Mr. Bolander, did the Division draft this rule
12 based on the premise that all emissions are to be addressed
13 in this rule?

14 MR. BOLANDER: Not all emissions.

15 Q. What emissions, what type of emissions are not
16 purportedly addressed by this rule?

17 MR. BOLANDER: There are a number of emissions
18 that occur from equipment that is not appropriate for the
19 Division to regulate, and those which are regulated under
20 NMED's rule.

21 Q. What equipment is that?

22 MR. BOLANDER: Emissions that would come from
23 equipment such as engines, compressors, dehydration units,
24 amine plants, you know, fire equipment that, you know,
25 potentially could have excess emissions, and for even

1 outside of reporting only, which the Division would like to
2 see the impact of this device outside of reporting
3 pneumatics are not regulated in terms of gas capture or
4 considered lost gas.

5 Q. Are the other -- is the other equipment that you
6 mentioned regulated as lost gas?

7 MR. BOLANDER: They are not.

8 Q. When the Division references venting and flaring
9 in this rule, are they talking about all emissions?

10 MR. BOLANDER: I'm trying to answer this, you
11 know, on answer is, yes, when emissions occur --

12 Q. That's fine --

13 MR. BOLANDER: -- by terminology it's either that
14 gas relief is either vented or flared.

15 Q. Okay. And does that occur no matter how small
16 the volume is?

17 MR. BOLANDER: Yes.

18 Q. And no matter what the pressure is?

19 MR. BOLANDER: Yes.

20 Q. And is considered venting or flaring whether it's
21 surface waste or not surface waste?

22 MR. BOLANDER: By definition venting and flaring
23 do not define waste, they define an event.

24 Q. So in other words, it includes the event whether
25 it constitutes surface waste or not?

1 MR. BOLANDER: Correct. Venting and flaring
2 defines an event of loss of gas. And how it is classified
3 whether it is waste or not, it doesn't have the ability to
4 either be used or sold or captured or engineered to a -- to
5 be able to be captured and sold or used.

6 **Q. So when we see the 98 percent, gas capture**
7 **percent in this rule, Mr. Bolander, is that 98 percent gas**
8 **capture percentage addressed as events causing surface**
9 **waste, or is it addressed as all oil and gas emissions?**

10 MR. AMES: Objection, confusing question. It's
11 not clear what Counsel means by addressed as.

12 HEARING EXAMINER ORTH: Do you mean accounted for
13 in the percentage? If you would just rephrase.

14 MR. FELDEWERT: Well, just because Mr. Ames is
15 confused by the question, it doesn't mean the witness is.

16 HEARING EXAMINER ORTH: It would be good to use
17 the language we have been using.

18 **Q. Mr. Bolander, when you look at the -- you are**
19 **familiar with the 98 percent gas capture target in this**
20 **rule; correct?**

21 MR. BOLANDER: Yes, I am.

22 **Q. Is that addressed as events causing surface**
23 **waste?**

24 MR. BOLANDER: Yes.

25 **Q. Does it include, and is it addressed as all oil**

1 **and gas emissions whether surface waste or not surface**
2 **waste?**

3 MR. BOLANDER: It is addressed in G(2), the
4 events that are reported, and then subsequently it's
5 addressed in 27.9.B in the accounting section which exempts
6 in some cases certain sources, but everything else that is
7 captured in G(2) that is calculated for gas loss is captured
8 as gas waste.

9 **Q. And would you agree with me that the events that**
10 **are included in this gas capture percentage include**
11 **emissions that do not constitute surface waste?**

12 MR. BOLANDER: I do not.

13 **Q. That's not the intent, is it?**

14 MR. BOLANDER: Repeat the question. I may not
15 have answered it correctly, if you don't mind, if could you
16 repeat.

17 **Q. Is the intent of the 98 percent gas capture rate**
18 **to include in this calculation events that do not constitute**
19 **surface waste?**

20 MR. BOLANDER: The calculation of the 98 percent,
21 the gas lost that is determined from reporting and
22 accounting is gas waste, natural gas waste.

23 **Q. The 2 percent is all natural gas waste?**

24 MR. BOLANDER: Yes.

25 **Q. Okay.**

1 MR. BOLANDER: Based on the gas produced, that's
2 key. As mentioned there are certain venting -- in most
3 cases going to be venting events because the volumes in many
4 cases are unable to be flared. In the cases where they are,
5 for example, emergency, which is exempted, you know, exempt
6 categories are not counted as waste.

7 There are categories that aren't listed in here
8 because if, if we were to take from the welding spud all the
9 way through the life of the well and every process and
10 component and list that, it would be exhaustive.

11 And the same with what's being reported. We
12 counted in the reporting section in 27.8.G(2) what
13 the Division considers is waste except for the three or four
14 categories that are outlined in the accounting section in
15 27.9.

16 **Q. So what is the structure the Division has**
17 **considered everything in G(2) to be surface waste?**

18 MR. BOLANDER: Except for the exceptions.

19 **Q. Exception for the exceptions, okay. I have heard**
20 **counsel describe that 2 percent as "free waste." Is that**
21 **accurate Mr. Bolander?**

22 MR. BOLANDER: You know, in my opinion, no. If
23 you've got the ability to capture that 2 percent, I would
24 hope that you would work towards capturing it. However, the
25 goals are set to achieve at least 98 percent. There's

1 nothing out there, including some of the data we saw
2 yesterday, that shows operators exceeding the 98 percent
3 already.

4 Q. Now, you would agree with me that that data that
5 was shown addressed what people would normally call high
6 pressure, routine venting and flaring events; right, Mr.
7 Bolander?

8 MR. BOLANDER: I can tell you what that data came
9 from is from the C-115 reports, and (unclear) your
10 accounting, the venting and flared events, I would look
11 across all of my operations and determine internally what
12 you consider waste and not waste and report it as opposed to
13 associated gas only.

14 Q. Okay. Would you agree with me that the
15 accounting for the gas capture and what's counted against
16 operators includes releases that are necessary and
17 unavoidable?

18 MR. BOLANDER: Yes.

19 Q. And that includes events that are -- that
20 provide a beneficial use?

21 MR. BOLANDER: Beneficial use is not counted.

22 Q. Okay. It shouldn't be counted; right?

23 MR. BOLANDER: It's not counted.

24 Q. Okay. Now, the releases that are counted against
25 operators, operators at this point based on the accounting

1 in G(2), includes releases during routine downhole
2 maintenance including the operation of workover rigs,
3 swabbing rigs, oil and tubing units and similar specialty
4 equipment, does it not, Mr. Bolander?

5 MR. BOLANDER: Correct.

6 Q. Okay. And those are events, Mr. Bolander, here
7 in Subpart D(2)(d) that the Division recognizes as
8 authorized venting and flaring events?

9 MR. BOLANDER: Yes, it is.

10 Q. Okay. And aren't the releases that occur during
11 these activities, do they constitute surface waste? Is that
12 your position?

13 MR. BOLANDER: Yes, they can, because they can be
14 done -- engineered out. They can be done using best
15 management practices that basically get the volumes down to
16 a very low volume that would have minimal impact on your gas
17 capture.

18 Q. But the way the language is written, if you
19 didn't get to that point, it would still be counted against
20 you as the operator?

21 MR. BOLANDER: Yes, it would.

22 Q. Okay. When you say it can be controlled, I think
23 that's the language you use in your document; right, Mr.
24 Bolander?

25 MR. BOLANDER: Yes.

1 Q. Okay. What do you mean by controlled?

2 MR. BOLANDER: For in this case here?

3 Q. For, yeah, venting and natural gas, downhole well
4 maintenance, workover rigs, swabbing rigs, tubing units,
5 similar specialty equipment, and minimizes the venting of
6 natural gas to the extent it does not pose a risk to safe
7 operations and personal safety and is consistent with best
8 management practices.

9 MR. BOLANDER: Right.

10 Q. Okay? In that circumstance, what do you mean by
11 it can be controlled?

12 MR. BOLANDER: It can be -- what I meant is that
13 it can be minimized to the best possible extent if utilizing
14 best management practices during those events to the point
15 that there will be emissions, but their volumes will be such
16 that even if they are added and calculated in G(2), their
17 effect on your 98 percent will be minimal.

18 Q. And who do you base that on? When you say
19 minimal, what are you talking about?

20 MR. BOLANDER: In terms of --

21 Q. Volume, give me a volume. What's minimal, Mr.
22 Bolander.

23 MR. BOLANDER: I don't have a volume to tell you.

24 Q. What percentage?

25 MR. BOLANDER: I don't have a percentage.

1 Q. Okay. When it comes to another category that's
2 in G(2) that is counted against the operator, even if they
3 use best management practices, is releases during manual
4 liquids unloading. Isn't that correct, Mr. Bolander?

5 MR. BOLANDER: Correct.

6 Q. And even though you recognize that it provides a
7 beneficial use such as lifting those liquids up?

8 MR. BOLANDER: I would not class -- I would not
9 classify manual liquid unloading as beneficial use.

10 Q. You already did. You already testified to that,
11 Mr. Bolander.

12 MR. AMES: Objection, no question.

13 Q. Can you -- Mr. Bolander --

14 MR. AMES: Madam Hearing Officer, can we have a
15 ruling on the objection, please?

16 HEARING EXAMINER ORTH: Yes, Mr. Feldewert would
17 you pose a question to Mr. Bolander?

18 MR. FELDEWERT: I will withdraw the question.
19 The record speaks for itself.

20 MR. AMES: Madam Hearing Officer, that wasn't a
21 question. That's the problem.

22 HEARING EXAMINER ORTH: No, I know. He's
23 withdrawn it. Go ahead, Mr. Feldewert.

24 MR. FELDEWERT: Did you hear that, Eric? I
25 withdrew it.

1 Q. Mr. Bolander, can you explain to me, someone who
2 is using best management practices in manual liquids
3 unloading, and it provides a beneficial use in lifting those
4 liquids, how is the venting avoidable, in your terms. And
5 "avoidable" is your term.

6 MR. BOLANDER: All right. It is avoidable by
7 looking at alternative methods to remove liquids from your
8 wellbore outside of use of manual unloading.

9 Q. Would you agree with me that there are times when
10 alternative methods are not available?

11 MR. BOLANDER: Yes.

12 Q. And, in fact, your company did manual liquids
13 unloading; correct, Mr. Bolander?

14 MR. BOLANDER: Yes.

15 Q. Okay. Another category that's counted against
16 operators that, in a gas capture calculation, is releases
17 from storage tanks. Is that correct, Mr. Bolander.

18 MR. BOLANDER: Uncontrolled storage tanks.

19 Q. Uncontrolled storage tanks counted against the
20 operator.

21 MR. BOLANDER: Correct.

22 Q. Now, you have heard testimony that uncontrolled
23 storage tanks are at the end of the line after all the
24 saleable gas has been removed?

25 MR. BOLANDER: Not necessarily.

1 **Q. But there are uncontrolled storage tanks that**
2 **exist which are at the end of the line, Mr. Bolander, where**
3 **all the saleable gas has been removed. Isn't that correct?**

4 MR. BOLANDER: There are tanks in which the
5 venting is at a volume that is too low to be saleable or
6 captured in a control device, but not all tanks.

7 **Q. Okay. And in those circumstances, even though**
8 **circumstances it's counted against the operator when it**
9 **comes to the gas capture calculation?**

10 MR. BOLANDER: It is counted against them. But
11 if you look at the models that are used for wells at that
12 volume, the volume that would be released through the enardo
13 valves which are the vent valves in most cases, will be, you
14 know, for many operators, I would expect that number to be
15 almost zero.

16 But for several operators in which they have
17 uncontrolled tanks and which they have not done either
18 proper design of separation to capture, those volumes will
19 be excessive, and this is a rule that is designed for
20 everyone.

21 **Q. When you say excessive, Mr. Bolander, what do you**
22 **mean? What's the volume that's excessive?**

23 MR. AMES: Objection. Can the witness finish his
24 statement. The purpose of this entire proceeding is to
25 provide information to the Commission. It's not a trial,

1 and so allowing the witness to finish his statement is
2 helpful to the Commission.

3 HEARING EXAMINER ORTH: Mr. Feldewert, I think
4 Mr. Bolander was about to finish a sentence there, and I
5 think he really is trying to answer your questions as best
6 he can, so, if you would, let him finish. Go ahead, Mr.
7 Bolander.

8 MR. BOLANDER: Okay. I understand, I understand
9 the science and engineering behind it for tanks we are
10 dealing with three emission types; breathing losses, which
11 is just normal losses of tanks; working losses which occur
12 when fluid is dumped in that tank and it takes -- there is
13 typically a loss because the vent valves are set at small
14 pressures, normally in ounces. And there are flashing
15 losses, and the flashing losses are the losses that can be
16 excessive, can be captured and can be put for disposition or
17 sales.

18 Q. At what pressure, Mr. Bolander?

19 MR. BOLANDER: At -- normally the vapor recovery
20 units are -- incorporate a compressor that is able to have
21 a low enough suction pressure to capture the gas, and then
22 the discharge pressure is high enough to be able to get into
23 a sales system.

24 Q. Okay. So you have to have control, uncontrolled
25 tank that has sufficient volume to have a compressor; right?

1 MR. BOLANDER: Correct.

2 Q. And enough pressure to operate the compressor and
3 get into the system?

4 MR. BOLANDER: Well, the compressor does that.
5 You have to have enough volume, and they are designed to
6 operate, you know, close to vacuum, so they are pulling, you
7 know, gas from the tanks, and then their discharge pressure
8 is such to be able to get into a low pressure sales system
9 or into another system to compress upwards in high pressure
10 situations.

11 Q. Now the reporting category G(2) mentions nothing
12 about any of that stuff; correct?

13 MR. BOLANDER: Correct.

14 Q. G(2) says uncontrolled storage tanks?

15 MR. BOLANDER: Yes.

16 Q. And no matter what the circumstance is with that
17 uncontrolled storage tank, it is counted against the
18 operator as part of the gas capture percentage?

19 MR. BOLANDER: Yes, it is.

20 Q. Okay.

21 MR. BOLANDER: Can I make a comment, if you don't
22 mind?

23 Q. Not at this point. You can make a comment later,
24 but I want to get through my questions.

25 MR. BOLANDER: Thank you.

1 Q. Okay. Mr. Bolander, would you agree that the
2 accounting on this gas capture percentage should also
3 include categories that will provide accurate data to
4 establish meaningful baselines?

5 MR. BOLANDER: Yes.

6 Q. Okay. And would you agree that the categories in
7 G(2) that are utilized to establish this gas capture
8 percentage should include categories that can provide
9 consistent data?

10 MR. BOLANDER: Yes.

11 Q. On a monthly volume basis?

12 MR. BOLANDER: Yes.

13 Q. And would you agree with me that the categories
14 in G(2) should contain circumstances where not only can the
15 data be consistent on a monthly basis, but reliable and
16 accurate on a monthly basis?

17 MR. BOLANDER: Should be reliable and accurate.
18 Consistent assumes that that event occurs on a regular
19 basis. For example, manual unloading may be infrequent, but
20 it does occur, and it may not occur on a monthly basis, but
21 it doesn't mean that it doesn't occur and can't be measured
22 through calculation.

23 Q. You agree with me, though, those calculations
24 have to be sufficient to provide reliable, accurate data on
25 the volume of the emissions?

1 MR. BOLANDER: I believe I testified earlier
2 today where industry associations, such as API and ANGA and
3 companies through the EPA natural gas program --

4 **Q. Mr. Bolander, wait a minute. My question is --**

5 MR. AMES: Objection. Let the witness finish his
6 answer.

7 MR. FELDEWERT: I wasn't finished asking.

8 MR. AMES: You ask it when he is finished
9 answering your previous one.

10 HEARING EXAMINER ORTH: Let him finish his
11 statement. Go ahead, Mr. Bolander.

12 MR. BOLANDER: I can end it pretty quickly with
13 when these companies reported the information using those
14 equations, they utilize that information either in economics
15 or in other manners, and nowhere in the documentation do
16 they question the accuracy of the engineering calculation
17 that were being used.

18 **Q. Would you agree with me that the purposes of this**
19 **rule in the gas capture percentage that operators are**
20 **required to calculate, that you must have a circumstance --**
21 **I'm looking at your Slide 49, Mr. Bolander. Are you with**
22 **me?**

23 MR. BOLANDER: Yes.

24 **Q. You have to have a circumstance where you can**
25 **obtain reliable, accurate data on the volume of produced**

1 natural gas that's being vented or flared. You agree with
2 that, don't you.

3 MR. BOLANDER: Yes, I do.

4 Q. Okay. And in fact, you have eliminated
5 categories as we saw in Slide 83 where this test could not
6 be met?

7 MR. BOLANDER: Correct.

8 Q. And would you agree with me that the Commission
9 does not carefully analyze the categories and determine
10 whether this test can be met, that the gas capture
11 percentage would be based on unreliable data?

12 MR. BOLANDER: With the way the reporting section
13 is written, operators are required to report how the volume
14 was determined, was it physically measured through a meter
15 or was it estimated and provide the methodology in doing so,
16 which then should provide the Division with the information
17 required to determine if the data is reliable and accurate.
18 And if they may have concerns, they have the ability to ask
19 for third party verification.

20 Q. My question is different, Mr. Bolander. When the
21 Commission looks at the category in G(2), don't you agree
22 with me that they need to make sure that those categories
23 meet this test on Slide 49, that they provide reliable,
24 accurate -- that operators can provide for those categories
25 reliable, accurate data on the volume of produced natural

1 **gas that is being vented or flared?**

2 MR. BOLANDER: Yes.

3 MR. AMES: Objection. Mischaracterizes the
4 slide. It's referred to as an objective, not a test.

5 HEARING EXAMINER ORTH: He's already answered,
6 Mr. Ames.

7 **Q. Because, Mr. Bolander, we don't want to have a**
8 **gas capture percentage imposed on operators in New Mexico**
9 **that is based on unreliable data now, do we?**

10 MR. BOLANDER: We want a gas capture percentage
11 that actually reports gas that should be captured, and thus
12 determined by gas loss calculations to be able to reduce
13 that.

14 **Q. And that needs to be based on reliable data;**
15 **right, Mr. Bolander?**

16 MR. BOLANDER: Yes.

17 **Q. Okay. Now these events that, where there is some**
18 **question about whether they can be accurately measured or**
19 **reasonably estimated, would you agree with me that releases**
20 **from storage tanks, for example, are regulated by the New**
21 **Mexico Environment Department, are they not?**

22 MR. BOLANDER: Yes, but not every tank in the
23 state.

24 **Q. And doesn't the NMED have proposed regulations**
25 **that seek to regulate emissions from these types of sources?**

1 MR. BOLANDER: Yes, but not for every tank in the
2 state.

3 Q. What tanks is the NMED not going to be
4 regulating?

5 MR. BOLANDER: Tanks that are outside the county
6 in which the regulations will be based on.

7 Q. So that would be based on emissions standards?

8 MR. BOLANDER: Correct.

9 Q. Okay.

10 MR. FELDEWERT: Is Mr. Powell available?

11 MR. POWELL: Yes, sir.

12 MR. FELDEWERT: Hold on one second.

13 CROSS-EXAMINATION OF PANELIST POWELL

14 BY MR. FELDEWERT:

15 Q. Mr. Powell, I want to ask you -- categories;
16 correct? I think you are the right person for that

17 MR. POWELL: That is correct.

18 Q. I thought I had -- give me a minute. I'm looking
19 for your PowerPoint slide.

20 MR. POWELL: I can pull it up, if you would like.

21 Q. That would be great.

22 MR. POWELL: Can I get sharing access, please.

23 Q. Yes. Stop sharing. Okay, thanks.

24 MR. COSS: You have sharing potential now,
25 Mr. Powell.

1 MR. POWELL: Thank you. Is that the one you are
2 looking for?

3 Q. Yes, thank you. I think you comment about this
4 on Page 9 of Exhibit 4C, as well as -- Mr. Powell; is that
5 right?

6 MR. POWELL: Would you like me to pull up the
7 PowerPoint or the --

8 Q. You can go ahead and leave this up. I just
9 wanted to orient you to this part of --

10 MR. POWELL: It's hard for me to look. My notes
11 are on the computer, so it's hard for me to look at both at
12 the same time.

13 Q. You don't need notes. You know this by heart.

14 MR. POWELL: I will try.

15 Q. I'm on OCD Slide 4C on Page 9, Line 87, and --
16 I'm sorry, Line 85. And you recognize, you say the OCD
17 recognizes that it would not inappropriate to require
18 operators to report volumes that the OCD has determined are
19 not waste. Do you agree with that?

20 MR. POWELL: In this context, yes.

21 Q. In the context of your slide?

22 MR. POWELL: Of the slide.

23 Q. I don't think (unclear) slide.

24 MR. POWELL: While you were referring to the
25 spreadsheet, I was trying to look at it as well. Sorry.

1 Q. Well, take a minute and look at it, that's fine.
2 I'm sorry.

3 MR. POWELL: Now I pressed the wrong button I
4 think. All right, we'll go back to the slide. Okay, we're
5 back at the slide. Can you please repeat your question?

6 Q. Well, let's see. You stated that the OCD
7 recognizes it would not be inappropriate to require
8 operators to report volumes that OCD has determined are not
9 waste. Okay?

10 MR. POWELL: That is correct, for this purpose.

11 Q. Okay. All right. And when you say not waste,
12 you mean shouldn't have to report if it doesn't constitute
13 surface waste?

14 MR. POWELL: Not as the waste I'm referring to
15 and I think that the slide refers to as well.

16 Q. How do you determine whether or not a particular
17 emission constitutes surface waste?

18 MR. POWELL: I would say that it would be up to
19 the operator to determine that first, ensure, one, it's
20 necessary, and two, it's not excessive. And then once they
21 determine that, then they would report it.

22 However, if the operator fails to determine it
23 and the OCD determines that it's either not necessary or not
24 excessive, then the OCD can require certain waste to be
25 report as well.

1 Q. So you would use essentially the statutory
2 criteria?

3 MR. POWELL: I didn't refer to the statute. I
4 referred to the definition in 19.15.2.

5 Q. I see. Is that the same as the statutory -- is
6 that the one that says surface waste is the unnecessary or
7 excessive surface loss or destruction without beneficial
8 use?

9 MR. POWELL: Yeah. I think there is excessive in
10 there. It's quite a bit longer than that. I don't have
11 that available at the moment.

12 Q. Okay. All right. I want to ask you about -- you
13 make a statement on the same Page 9 of your exhibit, so I
14 don't think we need to use the slide anymore. If you want
15 to go to your notes, Mr. Powell, that's fine.

16 MR. POWELL: Okay. Which line item are we on?

17 Q. So now I'm talking about -- this is your favorite
18 subject -- overriding royalty interest owner reporting.

19 MR. POWELL: Okay.

20 Q. So I'm on Page 9, Line 87.

21 MR. POWELL: Okay.

22 Q. Now, I believe, if I'm understanding it,
23 Mr. Powell, the Division agrees that reporting to overriding
24 royalty interest owners has its difficulties; right?

25 MR. POWELL: Yes, after testimony -- and I would

1 like to give a little context in my comments in this slide.
2 All of these slides are a culmination of all of our efforts.
3 I'm trying to address them to the best of my capabilities so
4 we could limit witnesses, but, yes, I believe it was pretty
5 extensive in the testimony that the overriding royalty
6 interest owners were hard to notify.

7 Q. And so you base the exclusion here on that
8 testimony?

9 MR. POWELL: Yes.

10 Q. Okay. Do you recall that that same testimony
11 applies to royal interest owners except the State Land
12 Office?

13 MR. POWELL: I believe there was discussions
14 about working interest owners as well.

15 Q. Okay. But that's the testimony that you relied
16 upon to remove overrides was offered equally for overriding
17 royalty -- I'm sorry -- royalty interest owners except the
18 State Land Office?

19 MR. POWELL: The testimony I remember, I believe
20 Mr. Smitherman was discussing with Madam Chair that working
21 interest owners would also have a say as well, or could also
22 have a say as well.

23 Q. Okay. And you're aware of the fact that an
24 operator, just like you may not have a contractual
25 relationship with an overriding royalty interest owner, and

1 likewise not have a contractual relationship with a royalty
2 interest owner?

3 MR. POWELL: I don't know that. I'm not a
4 royalty interest owner expert.

5 MR. FELDEWERT: Okay. May I have a couple of
6 minutes to confer with my co-counsel, Ms. Orth?

7 HEARING EXAMINER ORTH: Yes. Yes, you want ten
8 minutes?

9 MR. FELDEWERT: I don't think -- we can take
10 that long. I don't need that long.

11 HEARING EXAMINER ORTH: All right. Five minutes
12 is fine.

13 MR. FELDEWERT: Thank you.

14 (Recess taken.)

15 HEARING EXAMINER ORTH: Let's come back from the
16 break, please. All right. Mr. Feldewert, do you have
17 additional questions for Mr. Powell or Mr. Bolander?

18 MR. FELDEWERT: I do have some for Mr. Powell,
19 and then Mr. Rankin has been looking at the studies that Mr.
20 Bolander just cited today, so he wants to ask him a few
21 questions about that. Okay?

22 HEARING EXAMINER ORTH: All right. Please, go
23 ahead.

24 BY MR. FELDEWERT:

25 Q. Mr. Powell, you know I have heard your counsel

1 and I think others call this 2 percent free waste. Have you
2 heard that?

3 MR. POWELL: I have not heard that except from
4 you.

5 Q. I thought you heard that from counsel.

6 MR. POWELL: I must have missed it then.

7 Q. Do -- I can only speak to you because you
8 presented this on behalf of the Division. You were involved
9 in putting together this 98 percent gas capture and this
10 remaining 2 percent provision; right?

11 MR. POWELL: That is correct.

12 Q. Did you think that the Division has jurisdiction
13 to cap emissions that are -- cap surface waste emissions at
14 2 percent?

15 MR. AMES: Objection, calls for a legal
16 conclusion.

17 Q. Is that what the Division thinks?

18 HEARING EXAMINER ORTH: It's still a legal
19 question, Mr. Feldewert.

20 Q. Based on your understanding, Mr. Powell, in
21 putting this rule together, did the Division decide to cap
22 surface waste emissions at 2 percent?

23 MR. POWELL: So that's an in-depth topic. I
24 would say that the Division picked 98 percent because they
25 felt it was feasible. They felt that the 2 percent

1 allotment would allow continued operations as long as they
2 weren't excessive, and they would allow operators to be
3 continue working, but doing so prudently.

4 I think there was a lot of comment around waste,
5 surface waste, specific different activities, and I would
6 say that the 2 percent allows those activities as long as
7 they aren't excessive. Because I think if we were to
8 eliminate everything that was essentially necessary, then it
9 wouldn't really be necessary to allow that 2 percent or
10 should it be 100 percent capture except for the things that
11 are necessary and un wasteful.

12 So I think that 2 percent does allow the normal
13 operations as long ago they weren't excessive without them
14 getting excessive.

15 **Q. But if we include emissions in that 2 percent**
16 **that are necessary, then it's creating a cap on what is**
17 **necessary; right, Mr. Powell?**

18 MR. POWELL: I wouldn't say we are creating a cap
19 on what's necessary, we are ensuring that what's necessary
20 doesn't become excessive.

21 **Q. And by excessive, you mean more than 2 percent of**
22 **a particular volume?**

23 MR. POWELL: That's correct, more than 2 percent
24 of a volume. A good example of that is I think addressed by
25 say liquids unloading, and Mr. Bolander is a bigger expert

1 than I am, but say an operator is out there doing liquids
2 unloading, if they don't shut in valves once that liquid is
3 unloaded, continued venting of that liquids unloading would
4 be excessive even though it's part of normal operations.

5 Q. But if, for example, Mr. Powell, if there is an
6 operator here in the state who is reporting on all of the
7 categories that the Division has lumped into G(2), okay, and
8 has reached the -- and has reached the 98 percent
9 threshold, okay, at that point any venting from liquids
10 unloading that would normally not be surface waste would put
11 that operator out of compliance; right, Mr. Powell?

12 MR. POWELL: So I think the question, you are
13 saying on the specific liquids unloading, yes, but my
14 question would be, is there other waste in the other 2
15 percent that they are causing them to already be at that 98
16 percent.

17 So you would have to look at holistically over
18 all their venting and flaring, and if all of it was
19 necessary, and all of it was not excessive, then I would say
20 that that operator probably needs to go to hearing and show
21 each and every item that they are doing because I don't see
22 that as being the normal situation.

23 Q. But the Division, the way this is crafted, has
24 included the calculations of that 98 percent of emissions
25 that are not waste; right Mr. Powell?

1 MR. POWELL: I think the intent was they are not
2 waste as long as they are not excessive. And that's why
3 we're allowing the 2 percent is to ensure that they don't
4 become excessive.

5 **Q. And in addition to the way this is drafted, at**
6 **least from our point of view, this determination of 98**
7 **percent, at least based on the existing categories, would**
8 **include data that is currently drafted, and based on a lot**
9 **of the testimony, would not be reliable for volumetric**
10 **accounting purposes.**

11 MR. AMES: Objection. The question is based on,
12 as counsel said, on his client's point of view, not a
13 question that calls for speculation by the witness as to
14 whether he understands that to be NMOGA's point of view.

15 HEARING EXAMINER ORTH: I'm sorry, Mr. Feldewert.
16 Would you re-ask your question, please?

17 MR. FELDEWERT: Well, we can let -- I think I
18 will withdraw the question and let the evidence speak on
19 whether it's reliable data or not that should be utilized
20 for this type of volumetric monthly accounting.

21 MR. AMES: Objection, editorializing.

22 HEARING EXAMINER ORTH: Thank you, Mr. Ames.
23 That one is sustained. Mr. Feldewert, please go ahead.

24 MR. FELDEWERT: Sure. My colleague, Mr. Rankin,
25 now has a few questions about the studies that Mr. Bolander

1 referred to for the first time today.

2 MR. POWELL: So are you referring to Mr. Bolander
3 now?

4 HEARING EXAMINER ORTH: Thank you, Mr. Powell.

5 MR. FELDEWERT: Thanks, Mr. Powell.

6 HEARING EXAMINER ORTH: Let's get Mr. Rankin on
7 the screen. There you go.

8 MR. RANKIN: Good afternoon, Madam Hearing
9 Officer.

10 CROSS-EXAMINATION OF PANELIST BOLANDER

11 BY MR. RANKIN:

12 Q. Good afternoon, Mr. Bolander.

13 MR. BOLANDER: Good afternoon.

14 MR. RANKIN: Let's see, Mr. Rose-Coss, may I have
15 sharing capabilities?

16 MR. COSS: One moment, Mr. Rankin.

17 MR. RANKIN: Thank you.

18 Q. Mr. Bolander, while Mr. Rose-Coss manipulates the
19 system, what I'm going to ask you about is your rebuttal
20 testimony relating to Line Item 79 in OCD Exhibit 4C
21 revised. I'm just going to bring that up as a point of
22 reference so we can have a starting-off, jumping-off point.

23 If I can actually correctly use my mouse, it
24 would be helpful. Are you able to see my screen, Mr.
25 Bolander.

1 MR. BOLANDER: Yes.

2 Q. I have highlighted here a couple of points in
3 Line 79, and the issue here was two categories, reporting
4 categories that NMOGA had proposed to delete from the rule.
5 And you had testified on the basis for OCD's objection of
6 the deletion of those categories; correct?

7 MR. BOLANDER: Yes. Yes. Making sure I
8 understood the question.

9 Q. Sure, I understand. It's been a long couple of
10 weeks, and if we can -- focus is always a challenge at this
11 point in the game, but just getting you oriented to the
12 question.

13 So in those three categories that were proposed
14 for deletion were routine downhole maintenance, manual
15 liquid unloading, and uncontrolled storage tanks; correct?

16 MR. BOLANDER: Correct.

17 Q. And you testified today about two of those
18 categories, the manual liquid unloading and uncontrolled
19 storage tanks; correct?

20 MR. BOLANDER: Correct.

21 Q. And what you testified about was the ability or
22 validity of certain -- that there is a valid estimation to
23 quantify those volumes; correct?

24 MR. BOLANDER: Correct.

25 Q. And just to again get us oriented here, what I

1 think I heard you say was that there were engineering
2 calculations in Subpart W that OCD deems as being valid
3 estimation methods for that purpose; correct?

4 MR. BOLANDER: In Subpart W, yes.

5 Q. That applies to both the manual liquid unloading
6 process and the uncontrolled storage tanks; correct?

7 MR. BOLANDER: And where my testimony was on
8 storage tanks was highlighting certain software such as
9 ProMax and EMP Tanks that is known -- that's known within
10 the industry for design, designing equipment, as well as for
11 regulatory permitting.

12 Q. Okay. And those -- those -- so for storage tanks
13 you are not relying on Subpart W for storage tanks.

14 MR. BOLANDER: For storage tanks, the research I
15 did was specific to modeling technologies that are available
16 to be able to use to measure flash calculations or flashing
17 or emissions from tanks. That was my specific testimony and
18 background as well.

19 Q. Okay. So I will, I will take you to those in
20 turn, but I'm going to focus for purposes of my questions on
21 those two categories, the manual liquids unloading first,
22 and then the uncontrolled storage tanks. Okay?

23 MR. BOLANDER: Correct.

24 Q. Now, let's see, where is my -- all right. For
25 the manual liquids unloading, the basis for your statement

1 that there are valid estimation calculations available, this
2 was referring to in particular Subpart W as a valid method;
3 correct?

4 MR. BOLANDER: Correct.

5 Q. Now, I just -- you heard testimony earlier, I
6 believe, Mr. Bolander, you presented testimony earlier in
7 which the first witness testified about the variability in
8 Subpart W?

9 MR. BOLANDER: Yes.

10 Q. Now, I want to pull up -- you referenced Exhibit
11 46, OCD Exhibit 46 that specifically addresses estimation
12 methods for liquids unloading; correct?

13 MR. BOLANDER: Correct.

14 Q. Can you see my screen where I have a portion of
15 that exhibit on the screen?

16 MR. BOLANDER: Yes.

17 Q. I can scroll for you. Do you recognize this from
18 that exhibit?

19 MR. BOLANDER: Yes. That's one of the
20 methodologies listed in that, along with the utilizing the
21 engineering calculations as well as certain direct
22 measurement techniques as well.

23 Q. So in this particular case, this emission, this
24 emission factor is one of the methods identified in that
25 exhibit as a valid means of estimating volumes from manual

1 **liquids unloading; correct?**

2 MR. BOLANDER: Emission factors can. I spoke
3 specifically to the equation, however.

4 Q. Okay. So on this, on this point, then, these
5 **emissions factors, it references in the footnotes a**
6 **particular study that I think you also reference which was**
7 **the API-ANGA study; correct?**

8 MR. BOLANDER: Correct.

9 Q. So I'm going to pull that up, and my -- what I'm
10 going to ask you about. So going to the variability and the
11 wide confidence ranges here between what is available under
12 Subpart W, which is a valid estimation according to some of
13 the testimony, and other means that you have also identified
14 as being valid, in this particular study these are the
15 findings. Do you recognize these findings from API ANGA
16 study?

17 MR. BOLANDER: Yes, our company was actually a
18 part of the study.

19 Q. So, in summary, what were the two key findings
20 **from the API-ANGA study?**

21 MR. BOLANDER: One, use of the emission factors
22 could be off, and the intent of the study was to collect
23 from, from operators, and Southwestern was one of them,
24 actual well data from liquid unloading events, both manual
25 and plunger lift, and compare the results.

1 And ultimately we saw that using real data, you
2 know, compared to the EPA and actual estimates, using real
3 data was much lower than the EPA national measurement. And
4 you know, so the intent was, was doing -- utilizing real
5 well data and using the engineering calculations to show
6 that, hey, you know, the national estimates are off, but it
7 shows that the use was accurate.

8 **Q. So in terms of being able to identify an accurate**
9 **and reliable methodology to estimate volumes related to**
10 **manual liquids unloading, EPA Subpart W, on the one hand, is**
11 **one method. This emissions factor calculation method is**
12 **another, but the difference between the two here in this one**
13 **instance a factor of 14. Is that right?**

14 MR. BOLANDER: Yes.

15 **Q. Talking about tanks controlled -- I'm sorry --**
16 **uncontrolled storage tanks, which is the second category of**
17 **emissions that I would like to just talk about, now, my**
18 **understanding is from your clarification to me was that your**
19 **testimony was specifically directed to certain types of**
20 **software programs that were used to estimate those**
21 **emissions; correct?**

22 MR. BOLANDER: Correct, and design as well.

23 **Q. And design as well. And which were those**
24 **software programs again? Sorry, I have them in my head.**

25 MR. BOLANDER: ProMax which was developed, I

1 think, Brian Engineering, which is a Texas engineering firm.

2 Q. And you also referenced OCD 46, which pertains
3 specifically to emissions estimations from uncontrolled
4 tanks; is that right?

5 MR. BOLANDER: Yes.

6 Q. And in Exhibit 46 -- I will pull that up here on
7 my screen. Let me know when you can see it -- is that 46?
8 I'm sorry, I meant to say 45.

9 MR. BOLANDER: Oh.

10 Q. 45, you also referenced Exhibit 45 when you were
11 talking about estimating emissions behind emissions from
12 uncontrolled storage tanks?

13 A. Yes.

14 Q. And you recognize the page here I've got up here
15 on the screen reflecting estimation methods contained in
16 that exhibit?

17 MR. BOLANDER: Yes. I'm familiar with those.

18 Q. Now, in your testimony I understood you to say
19 that flashing losses can be excessive, and one of the
20 concerns around these emissions from volumes from tanks is
21 the flashing losses; correct?

22 MR. BOLANDER: Correct.

23 Q. And some of the software that is identified in
24 this estimation method are identified here Accutech, HYSYS
25 (unclear) tanks and others; correct?

1 MR. BOLANDER: Correct.

2 Q. And in this case the (unclear) identified -- this
3 paper specifies that, quote, "Software cannot characterize
4 separator or scrubber valve leakage which can far exceed
5 flashing losses." Did I read that correctly?

6 MR. BOLANDER: Yes, you did.

7 Q. It appears to present a problem where the
8 software is unable to exclude or correctly characterize
9 certain types of liquid which can overwhelm the flashing
10 loss issue; correct?

11 MR. BOLANDER: It can. It's not designed to
12 evaluate a tank based on a malfunction. It's designed to
13 look at the full well stream of hydrocarbons, go through the
14 phase separation and determine what the volume of gas would
15 be flashed in the tank based on how that gas was separated
16 and sent to the tank.

17 As far as looking at the note, that would be an
18 indication that you have a malfunction, not an uncontrolled
19 tank due to poor design. I would, that last comment, I
20 would characterize that as being reported under the
21 malfunction category of OCD's regulation.

22 Q. Now, on the topic of the software that's
23 identified here, I have highlighted a portion of the
24 language that indicates that -- and I guess when they refer
25 to partners, they mean -- what do they mean when they refer

1 to partners?

2 MR. BOLANDER: Partners are where the oil and gas
3 companies that were the participating partners in the
4 coalition.

5 Q. So in this case, the intent here would be to
6 suggest that operators who intend to use this would then
7 calculate flashing, working and standing emissions, and
8 those are the three types of emissions that you referenced
9 during your testimony; right, breathing, working and
10 flashing losses, are those the equivalent here?

11 MR. BOLANDER: Yes.

12 Q. Using the software identified in the highlights
13 that I have highlighted in the language.

14 MR. BOLANDER: Correct.

15 Q. And it -- it states here that these emissions,
16 these programs they are referencing here are equations of
17 state programs; is that correct?

18 MR. BOLANDER: Yes.

19 Q. Is it your understanding that equations of state
20 can provide working emissions?

21 MR. BOLANDER: Yes.

22 Q. Okay. And that equations of state will also
23 provide standing emissions. Is that your understanding?

24 MR. BOLANDER: Yes, as well as flashing.

25 Q. So all three of those programs will provide those

1 calculations or estimations for each of those types of
2 categories of emissions?

3 MR. BOLANDER: Correct.

4 Q. Now, Mr. Bolander, were you present for NMOGA's
5 witnesses' testimony regarding different methodologies and
6 factors that operators often employ to address and manage
7 their facilities and emissions from their facilities such as
8 oil and gas blankets?

9 MR. BOLANDER: I'm familiar with that. Was that
10 Mr. Leonard?

11 Q. It may have been Mr. Greaves, do you recall that?

12 MR. BOLANDER: Unfortunately I did miss
13 Mr. Greaves' testimony.

14 Q. Do these estimation methods include any of those
15 potential operational methods and other operational
16 techniques that operators may employ to vanish their
17 emissions and vapors from their tanks and systems?

18 MR. BOLANDER: It would use the software to
19 determine what would be the best method of mitigating excess
20 flashing that's occurring. It could either be during the
21 separation phase and/or -- and the tank, and how do you
22 handle that.

23 Q. But do they -- how would it do that? I'm sorry,
24 I'm not quite sure I followed that answer.

25 MR. BOLANDER: Typically you start with a

1 recombined sample of the oil and gas, or gas and condensate,
2 and unfortunately missing Mr. Greaves, the change of phase,
3 process of going through phase behavior, you know, each
4 reservoir fluid has a phase envelope, and what these -- what
5 this software does is, as you go through pressure and
6 temperature changes, the gas liberates from the fluid at
7 different percentages, at different stages, and the software
8 is designed to determine what would be the most efficient
9 process.

10 And for example, in separation, is it better --
11 is it just as good to operate one separator or does it
12 require two separators to stabilize your hydrocarbon through
13 the process to one through that stabilization process it
14 actually improves your oil production, but in the other
15 instance it reduces the volume of gas that is flashed than
16 if you didn't go through that extra stage of separation.

17 It could also be a condition of separation. It
18 could also be a temperature effect, such as installing
19 aerial coolers to perform the same function as a pressure
20 drop. And through that process, you understand what volume
21 of gas would be flashed off the tanks, and then that volume
22 of gas that would be flashed off the tanks, if it's
23 sufficient, that's where you design your vapor recovery,
24 which we saw, you know, a schematic that Mr. Leonard
25 presented. It showed, you know, a lot of the tanks or

1 facilities that he mentioned are design and controlled
2 facilities where they install vapor recovery off the tanks,
3 because they physically have gone through the modeling
4 calculations for that to determine, you know, what types of
5 separation they need and the capture recovery.

6 Q. So, Mr. Bolander, I think I may have lost you. I
7 was asking about gas leakage and how the software programs,
8 if they do, in fact, account for and allow operators to
9 account for their operations, including the use of gas
10 blankets to manage their emissions from storage tanks.

11 MR. BOLANDER: I would like to say that's one
12 methodology, a gas blanket will maintain a pressure on the
13 tank to minimize the flashing aspect of it.

14 Q. I guess my question is, do these software
15 programs allow the operators to incorporate those operations
16 in their estimations through the software?

17 MR. BOLANDER: Where, you know, engineers that
18 have worked for me have used this, have used it in the
19 design of separation and design of vapor recovery.

20 Q. I guess that's not answering my question. I'm
21 trying to find out, if an operator is using a gas blanket,
22 if they can also use this software to accurately estimate
23 the emissions that they have in their system.

24 MR. BOLANDER: Yes. You can estimate, you know,
25 what would be emitted in normal operations, you know,

1 without, you know, any type of control such as what gets
2 emitted say through a vent or enardo valve.

3 Q. Including the effects of operations of their gas
4 blankets?

5 MR. BOLANDER: Should be able to.

6 Q. Okay. And do these programs also account for the
7 estimation -- do the estimation methods also account for, as
8 Mr. Greaves testified about, the importance of identifying
9 the location of where the pipe enters the tank, whether it's
10 from above or below, do these software program estimation
11 methods account for such factors as location of the pipe?

12 MR. BOLANDER: I do not have that intimate
13 knowledge. However, engineers that I have worked with do
14 have, you know, are able to design our equipment effectively
15 using this type of software.

16 Q. That's the design. I guess I'm wondering about
17 being able to estimate your emissions. To your knowledge
18 you are not aware of whether or not these programs account
19 for the location of pipes in order to accurately estimate
20 the emissions?

21 MR. BOLANDER: I'm not sure where they assume
22 pipe location is, but if you are designing a vapor recovery
23 unit, then obviously you're basing it on the emissions from
24 the tank.

25 Q. You weren't here to hear Mr. Greaves testify

1 about the importance of the location of the pipe, and you
2 understand that that would impact emissions; correct?

3 MR. BOLANDER: No, sir.

4 Q. And then finally, as far as installation, there
5 was some discussion about the importance of the impact of
6 insulating pipes on the system and estimating emission
7 volumes. To your knowledge, do these software programs or
8 estimation methods allow operators to incorporate the
9 effects of insulation on piping in calculating or estimating
10 their emissions from uncontrolled tanks?

11 MR. BOLANDER: I do not have that knowledge.

12 Q. And you also, if you weren't here for
13 Mr. Greaves, then you didn't hear him testify about the
14 importance of the dramatic swings in thermal variation
15 temperature, which I'm assure you are familiar with, that
16 occurs down in the Permian.

17 To your knowledge, are these programs able to
18 incorporate and take into account dramatic thermal shifts in
19 thermal temperature gradience in your estimation of these
20 emissions volumes?

21 MR. BOLANDER: In their calculation of standing
22 emissions, which would be breathing losses, that would be a
23 determination based on those effects. What the limits on
24 the software is in terms of temperature swings, I do not
25 have that knowledge, but it does account for the calculation

1 of breathing losses.

2 **Q. Very good.**

3 MR. RANKIN: Madam Hearing Officer, I have no
4 further questions at this time for Mr. Powell. Appreciate
5 it.

6 HEARING EXAMINER ORTH: Thank you very much, Mr.
7 Rankin. Mr. Biernoff, do you have questions of the Division
8 panel?

9 MR. BIERNOFF: Thank you, Madam Hearing Officer,
10 I do not. Thank you.

11 HEARING EXAMINER ORTH: All right. Thank you.

12 Ms. Fox, will you have questions of the Division
13 panel, and if the answer is yes, I will ask you to estimate
14 so that I know whether we need a break or not.

15 MS. FOX: We do, but Mr. Baake and I do, and I
16 have about five to seven -- five to ten minutes' worth of
17 questions, and Mr. Baake has perhaps -- what do you want to
18 What do you want to say, David.

19 MR. BAAKE: I'm hopeful we can go through
20 quickly. I would say, to be conservative, 15 minutes, but
21 probably closer to ten.

22 HEARING EXAMINER ORTH: Okay. Well, if you would
23 like to go ahead, go ahead, and I will.

24 MR. AMES: Why don't we let the witnesses --
25 Madam Hearing Officer, they have been going now for almost

1 an hour and a half, if not a bit more. I think a short
2 break for them would be appropriate.

3 HEARING EXAMINER ORTH: All right. No, I'm fine
4 with that. Let's take ten minutes then.

5 MR. AMES: Thank you.

6 HEARING EXAMINER ORTH: Come back at 2:45.

7 MR. AMES: I'm sorry, what time?

8 HEARING EXAMINER ORTH: 2:35.

9 MR. AMES: 2:35.

10 HEARING EXAMINER ORTH: Sorry.

11 (Recess taken.)

12 HEARING EXAMINER ORTH: All right. Let's come
13 back from the break, please.

14 MS. FOX: Mr. Rose-Coss, can I have sharing
15 ability?

16 MR. COSS: Yes, of course, Ms. Fox. One moment.

17 MS. FOX: Thanks.

18 HEARING EXAMINER ORTH: Get the witnesses back on
19 the screen. Irene, how are we doing?

20 REPORTER: We're doing.

21 MS. FOX: If Mr. Powell could appear, please.

22 HEARING EXAMINER ORTH: Mr. Powell and Mr. Ames?

23 MR. AMES: I'm here.

24 HEARING EXAMINER ORTH: Terrific. We are back on
25 the record after a short break. It's time now for Climate

1 Advocates to pose their questions to the Division panel on
2 rebuttal. Ms. Fox.

3 MS. FOX: Thank you, Madam Hearing Officer.

4 CROSS-EXAMINATION OF PANELIST POWELL

5 BY MS. FOX:

6 Q. Good afternoon, Mr. Powell.

7 MR. POWELL: Good afternoon.

8 Q. I want to ask you about Item 106 in the
9 spreadsheet having to do with Part 27 that OCD submitted
10 last evening that I have on the screen.

11 MR. POWELL: Okay.

12 Q. So Item 106 addresses OCD's reaction to our
13 proposal that there would be automatic denial of APDs if an
14 operator is out of compliance with its gas capture
15 requirements.

16 MR. POWELL: That is correct.

17 Q. And part of the OCD's rationale for not accepting
18 that proposal is that operators who are out of compliance
19 with the annual gas capture plan must submit more robust gas
20 management plans; correct?

21 MR. POWELL: That is correct.

22 Q. And OCD states that operators cannot spud any
23 well until they are in compliance. Do you see that
24 language?

25 MR. POWELL: That is correct.

1 **Q. And do you mean if they are not in compliance**
2 **with their annual gas capture requirements?**

3 MR. POWELL: I believe this one relates to the
4 provision that we added, and if you will give me just a
5 moment, let me try to find it. Where if they are out of
6 compliance, they have to submit a more robust plan, and if
7 they fail to comply with it, then we can suspend their APDs.
8 I believe that is 19.15.27 dot 9.A(4).

9 **Q. But doesn't that provision say that the, even if**
10 **an operator is out of compliance with its gas capture**
11 **requirements, it can submit a plan to come into compliance**
12 **that year if OCD, if it approves that plan, will allow it to**
13 **spud during that year. Isn't that how it works?**

14 MR. POWELL: That would be -- I believe so, that
15 they would submit the plan, and as long as they were
16 conforming with that plan, they would still be allowed to
17 spud. If they fell out of compliance with that plan and
18 weren't in compliance with that plan, that's where they
19 wouldn't be able to spud.

20 **Q. I think the way it reads is they cannot spud if**
21 **they are out of compliance with their annual gas capture**
22 **requirements except if they submit a plan to the Division**
23 **and the Division approves that plan. Isn't that how it**
24 **reads?**

25 MR. POWELL: Let me look at it a little closer.

1 Q. I guess what I'm most concerned about,
2 Mr. Powell, is the phrase in here that an operator who is
3 out of compliance with their annual gas capture plan cannot
4 spud, and I do not think that's accurate. I think that's
5 what Mr. de Saillan was proposing, but it's not what OCD is
6 accepting.

7 MR. AMES: Objection, objection. That's a
8 statement, not a question.

9 MS. FOX: It was a question. I'm asking --

10 HEARING EXAMINER ORTH: -- if he agreed with that
11 statement.

12 MR. POWELL: I would say the provision is not in
13 there for an automatic denial of a spud. The provision is
14 through an enforcement mechanism with the compliance plan.

15 So you are correct, it's not an automatic
16 provision until they go through the compliance plan that the
17 spud be denied until they are in compliance.

18 Q. Right. And so an operator that is out of
19 compliance with their annual gas capture requirement can,
20 under certain circumstances, spud a well even if they are
21 out of compliance with their annual gas capture
22 requirements?

23 MR. POWELL: I would say, yes, that's correct, in
24 a general sense.

25 Q. Or in the sense how OCD has written its

1 regulations, would you agree?

2 MR. POWELL: Well, I think there are certain
3 provisions that if they fail to meet in 4, then it becomes a
4 denial that they wouldn't be able to spud. But until they
5 are into that provision in 4, that automatic denial for spud
6 would not be there.

7 Q. Right. Thank you. Let's see the next provision,
8 the next one on 102 they identified as Mr. Bolander,
9 although I think either one of you can answer this next line
10 of questioning about, about applying for an APD.

11 MR. POWELL: If it's regarding the APD, I think I
12 was identified down below, so I could try to answer.

13 Q. Yeah, I'm guessing that you are the better
14 person. So let's stay with you since you are on camera, if
15 that's okay.

16 MR. POWELL: That's fine.

17 Q. Okay. So looking at Climate Advocates' proposal
18 on the circumstances under which an APD can be approved.
19 Let me see if I understand this, Mr. Powell.

20 If an operator applies for an APD, the operator
21 has to -- and I'm a looking here at -- this is 27.9.E(4),
22 and if an operator is applying for an APD, the operator has
23 to either certify that it will be able to connect the well
24 to a natural gas gathering system in the general area with
25 sufficient capacity to transport 100 percent of the volume

1 of the natural gas the operator anticipates. And if it
2 can't do that, then the operator must submit a venting and
3 flaring plan. Is that correct?

4 MR. POWELL: That is correct.

5 Q. So there is two options. There is the
6 certification for takeaway capacity. If they can't do that,
7 then they submit a venting and flaring plan. And the
8 venting and flaring plan has to do with uses of the gas on
9 site; correct?

10 MR. POWELL: That is correct.

11 Q. And so what your proposed rule requires is that
12 operators submit a venting and flaring plan that evaluates
13 the number of options; correct?

14 MR. POWELL: I think there's --

15 Q. That are produced?

16 MR. POWELL: I think there's two main options and
17 then some sub options under one of those main options.

18 Q. I have the screen in front of me. So I'm seeing
19 about nine options and then an alternative use option.

20 MR. POWELL: Right. So maybe I misunderstood. I
21 thought you were talking any option. So the two big
22 options, it would be a hundred percent takeaway, or the
23 second option would be another beneficial use. And under
24 the beneficial use, there is some sub options, yes, correct.

25 Q. And so what the operator does is they submit a

1 **plan that evaluates potential uses; correct?**

2 MR. POWELL: That is correct.

3 **Q. They don't select a potential use, they evaluate**
4 **a potential use; correct?**

5 MR. POWELL: I think they have to evaluate and
6 then do one of those potentials or shut in the well as we
7 propose.

8 **Q. So their plan has to evaluate and select a use?**

9 MR. POWELL: Yes. So in 5, in E(5), there's the
10 word "shall" in there. So the operator shall either shut in
11 the well until the operator submits a certification or
12 submits a venting and flaring plan.

13 So that shall there dictates either it has to be
14 shut in, they have to certify the hundred percent takeaway,
15 or they have to use one of the venting or flaring plans down
16 below.

17 **Q. A through J?**

18 MR. POWELL: A through J, correct.

19 **Q. So the operator does need to select from among**
20 **those ten or so options?**

21 MR. POWELL: Yes, the A through I, shutting it in
22 or having certification.

23 **Q. And we had proposed language that would express**
24 **stating that the operator needs to select a number among**
25 **those alternatives, and it sounds to me that substantively**

1 **you agree that the operator must evaluate and select among**
2 **one of those alternatives; is that correct?**

3 MR. POWELL: I would say, substantively, they
4 have to use one of those alternatives if they can't take it
5 away or shut it in.

6 **Q. They have to select one of those alternatives, I**
7 **believe, is what you told me; is that correct?**

8 MR. POWELL: I don't know if they have to select
9 it, but they would have to use it, use one of those
10 alternatives, which means they would have to likely let us
11 know which one they are using.

12 **Q. Or, in other words, select one of those**
13 **alternatives?**

14 MR. POWELL: Correct.

15 **Q. And then when we go down to Subsection, what is**
16 **your Subsection 7 and our new Subsection 8, the Division**
17 **requires that the operator either -- if the operator does**
18 **not make a certification, or fails to submit an adequate**
19 **venting and flaring plan, or if the Division determines the**
20 **operator doesn't have adequate takeaway capacity at the time**
21 **a well is to be spud, you all propose the Division may deny**
22 **the APD or approve the APD -- or conditionally approve the**
23 **APD; is that correct?**

24 MR. POWELL: That is correct.

25 **Q. And do you remember the testimony under**

1 cross-examination from Mr. Lepore when I was asking him what
2 is meant by an adequate venting and flaring plan?

3 MR. POWELL: Vaguely.

4 Q. Do you remember specifically that I asked whether
5 an adequate -- if -- if a venting and flaring plan would be
6 adequate if --

7 MR. POWELL: I.

8 Q. -- just let me finish here -- if it allowed 50
9 percent of the gas to be vented or flared?

10 MR. POWELL: I do remember. Yes, I do remember.

11 Q. Okay, great. And he responded yes. Do you
12 remember that?

13 MR. POWELL: I do remember that response even
14 though I may not agree with it.

15 Q. And that's exactly what I was going to ask you.
16 Do you agree with that, that that, a venting and flaring
17 plan under this provision could allow for ten -- let's
18 say -- well, let's start with 50 percent of gas emitted to
19 be let go.

20 MR. POWELL: So what I would say in the venting
21 and flaring plan is -- and I think that's where Mr. Lepore
22 may not have the in-depth knowledge with all the other rules
23 that the Division has, is attaching this as part of the APD
24 package, it's part of the information submitted with an APD.
25 So in that submittal with the APD, it also falls under the

1 rules of the APD that they have to fill it out completely.
2 And then it also falls under the rules that we have general
3 enforceability with permits that they have to comply with
4 all the permits.

5 I would say if they submitted one that says they
6 were only taking away 50 percent of the capacity, going back
7 up to the Provision 4 and 5 that we just discussed where it
8 says that they shall do one of the following, it's either
9 takeaway capacity, shut in or beneficial use, I would say
10 that that would not provide a 50 percent takeaway capacity
11 because it doesn't meet any of those criteria.

12 So it would not be approvable, so therefore the
13 APD, in my opinion, would not be approvable at that point,
14 because the approval is not specific to the venting and
15 flaring plan itself, the approval is specific to the APD
16 package.

17 **Q. What percentage of produced gas has to be**
18 **captured or, rather, used for beneficial use under a venting**
19 **and flaring plan?**

20 MR. POWELL: So for the beneficial use we don't
21 have that specifically identified for each one of those
22 levels. I don't know that I have an idea of how efficient
23 each one of those are, I'm not an expert in those. I would
24 guess that some may have different efficiencies. But when
25 using -- but when using those -- sorry.

1 **Q. No, go ahead.**

2 MR. POWELL: I was going to say, when using those
3 different usage, that that beneficial use would have to be
4 consistent with that usage instead of -- in my opinion, it
5 would have to be consistent with the intent of that usage.

6 **Q. And then where in your rule are there any limits**
7 **on the percent amount of gas that must be used in order for**
8 **a venting and flaring plan to be adequate?**

9 MR. POWELL: So used or -- so I think I just
10 addressed that. Maybe I stated it wrong. So use, I would
11 say, qualifies under the beneficial uses which would be A
12 through I. I don't think we have a percentage of that for
13 different usage as far as what's acceptable. But if it's
14 for takeaway, we do have that percentage which is a 100
15 percent takeaway capacity.

16 **Q. Right. So then your rule by its terms does seem**
17 **to allow what Mr. Lepore testified to, and that is that the**
18 **beneficial use plan could allow 50 percent of venting and**
19 **flaring since there is no percent requirement beneficial**
20 **use; is that correct?**

21 MR. POWELL: Well, I would -- I would caveat that
22 with whatever percentage that they are using has to be
23 consistent with one of those options. So they would have,
24 say power generation, all of that gas would be going through
25 and being used as efficiently as possible for that power

1 generation. They couldn't have a power generator on site
2 and be directing ten percent of their gas to that power
3 generation and venting the other 90 percent.

4 I would say that whatever they are using that for
5 for beneficial use has to be (unclear) with the gas they are
6 venting or flaring through that.

7 Q. Now, under your proposed language, if an operator
8 doesn't make a certification, doesn't have an adequate
9 venting or flowing plan, or if you all determine there is
10 not adequate takeaway capacity, the Division proposes
11 language that states the Division may deny the APD or
12 conditionally approve the APD. That's correct, right, we
13 have gone over that?

14 MR. POWELL: That's correct. That's correct.

15 Q. So could the Division approve an APD without
16 conditions under this language?

17 MR. POWELL: I would say the way it's written
18 they could, but it wouldn't be consistent with the intent of
19 the rule.

20 Q. So is the intent of the rule is that the Division
21 only has two choices here, to either deny the APD or
22 conditionally approve the APD; is that correct?

23 MR. POWELL: If they are out of compliance, yes,
24 that was the intent.

25 Q. And so then the language that Climate Advocates

1 proposed making it clear that the Division has only those
2 two choices, deny or conditionally approve, is consistent
3 with the OCD's intent as you just described it; correct?

4 MR. POWELL: I think there could be other
5 circumstances that still meet that intent because I think
6 there is more than one way to conditionally approve or bring
7 an operator into compliance that would still meet that
8 intent.

9 That would be through our enforcement discretions
10 similar like an agreed compliance order where we have
11 stipulated penalties if they didn't meet it. That could be
12 conditioned on that previous provision where we identify an
13 operator isn't complying and they would come to us with a
14 compliance plan.

15 So I would say those would still be conditions
16 even though those are conditions not explicit on the APD
17 itself, they are conditions explicit to the overall process.

18 Q. Right. But we are not talking an enforcement
19 action in this section, we are talking about approval or not
20 approval of APDs. So what you had told me was that the
21 intent of this provision is either that the Division deny
22 the APD or conditionally approval the APD.

23 I am not take -- I'm not asking you about what
24 the Division would doing in taking enforcement action. So
25 let me ask again. Isn't it true that the intent of the

1 Division in this provision as just told me, is either, if --
2 if the operator can't certify, if they don't have an
3 adequate venting and flaring plan, if they can't -- if you
4 all determine they don't have sufficient takeaway, the two
5 options for the Division are to deny the APD or
6 conditionally approval the APD; correct?

7 MR. POWELL: Let me look at the wording just to
8 be sure. So if they don't certify it, then it would be,
9 correct, a denial or conditional approval. They don't
10 submit an adequate venting or flaring plan, yes, I would
11 agree with that, to approve it we would need to do A or B.

12 Or if the Division determines the operator will
13 not have adequate natural gas takeaway capacity at the time
14 a well will be spud, the Division may -- I would say the
15 last one, at the time of spud the Division may, that's where
16 there may be other enforcement discretions may be already in
17 play, because I don't see the Division making that
18 determination as a standard course of business every day.
19 The operator would likely already be in some kind of
20 discussion or enforcement action with the Division for that
21 one to apply.

22 Q. But let's go back to the APD, because that's what
23 we are talking about. We are not talking about the
24 enforcement action, and I agree that as the APD process is
25 going on an enforcement action can be going on parallel.

1 What I'm talking about is what OCD does vis-a-vis
2 the APD, and if the -- if the Division determines that the
3 operator doesn't have adequate takeaway capacity at the time
4 a well will be spud, with respect to the APD, the Division
5 can only deny or approve conditionally; isn't that correct?
6 Or could it approve without any conditions at all?

7 MR. POWELL: I would say if they are already in a
8 plan, in that case to meet that intent, they could approve
9 it because attaching the conditions may be duplicative of
10 actions the Division has already taken.

11 Q. May or may not be taking.

12 MR. POWELL: Correct.

13 Q. And then finally, if the condition, you know, the
14 operator, you know, is failing to certify, failing to submit
15 an adequate plan, failing to -- the Division thinks does not
16 have takeaway capacity, you all say that the Division can
17 deny or conditionally approve.

18 But shouldn't the conditional approval ensure
19 that however the operators have failed, whether it's failure
20 to certify, submit an adequate plan, not have takeaway
21 capacity, shouldn't the conditions for that APD go to the
22 failure of the operator to make the necessary showing?

23 MR. POWELL: So, yes. If you put conditions on
24 the APD, those conditions would be related to that failure
25 for the operator to comply with that failure or address that

1 failure.

2 MS. FOX: That's all I have. Thank you very
3 much, Mr. Powell.

4 MR. POWELL: Thank you.

5 HEARING EXAMINER ORTH: Thank you, Ms. Fox.
6 Let's see, do we have -- we have Mr. Baake for the remainder
7 of Climate Advocates' questions.

8 MR. BAAKE: That's correct. Thank you, Madam
9 Hearing Officer. I think all of my questions are going to
10 be for Mr. Bolander. So, Mr. Powell, thank you very much.

11 I am very grateful for all the time OCD has spent
12 and I would even go further and say all the work that Madam
13 Hearing Officer has done, the Commission and Counsel for
14 either side, it's been, you know, I think a very, very fair
15 to have people putting in, so I appreciate that.

16 CROSS-EXAMINATION OF PANELIST BOLANDER

17 BY MR. BAAKE:

18 Q. Mr. Bolander?

19 MR. BOLANDER: Yes, I'm on.

20 Q. There you are. Okay. Let's see. Mr. Bolander,
21 I would like to start with controlled storage tanks or --
22 yeah.

23 MR. BOLANDER: Yes.

24 MR. BAAKE: Can I get to share as well?

25 That's not right, is it. It's just zoomed in.

1 Q. Okay. So under Section 8.G(2), I'm talking Part
2 27 here, entitled monthly reporting of venting and flaring
3 of gas, we had proposed to add a section here for controlled
4 storage tanks.

5 And then I believe -- I believe that you have
6 responded to that by saying OCD believes this category is
7 not required because these tanks would be full, meaning that
8 their emissions are being captured for beneficial use or
9 destruction in a flare.

10 I can pull that up in your spreadsheet, but do
11 you recall that? Do you agree that's what you said?

12 MR. BOLANDER: Yes, I do remember.

13 Q. Okay. Well then I won't bother with it, because
14 it will make (unclear) scrolling and it would be beyond my
15 capacity.

16 So I guess, Mr. Bolander, I don't really
17 understand this answer. So we are talking about information
18 that should be included in the monthly report of vented and
19 flared gas, and so why wouldn't flare in that storage tank
20 be reported as a type of flaring?

21 MR. BOLANDER: There could be a couple of reasons
22 for the, one, there is an exception that for gas that has a
23 high percentage of H₂S, which is not pipeline quality. In
24 those cases there, gas being -- coming off the storage
25 tanks, which would be considered controlled, would be

1 flared, as an example. For, you know, most cases I would
2 say, if you could capture it, you know, through a vapor
3 recovery, if the gas quality meets specifications, that
4 would be the preferred method. In that case, it is being
5 captured for disposition.

6 Q. Okay. So again, I'm just a little -- again, I'm
7 trying to clarify here because -- but you agree that
8 controlled storage tank -- I guess our intent with that
9 language was to include flaring at a tank of gas. So you
10 agree that that is -- that does happen?

11 MR. BOLANDER: Yes.

12 Q. And flaring of tank gases would not be covered
13 under F here, which is uncontrolled storage tanks; right?
14 Uncontrolled covered venting from storage tanks; correct?

15 MR. BOLANDER: Uncontrolled tanks could --
16 yes --

17 Q. Is flaring --

18 MR. BOLANDER: You are correct.

19 Q. Is flaring of tank gas potentially a form of
20 waste?

21 MR. BOLANDER: Potentially, yes, dependent upon
22 the reason for the flare.

23 Q. And Mr. Bolander, did you hear Dr. McCabe testify
24 yesterday that almost 3000 tanks in New Mexico, most in the
25 Permian Basin are already using vapor recovery units to

1 capture the gas and direct it back to sales?

2 MR. BOLANDER: Yes, I did listen to David's
3 testimony yesterday.

4 Q. And Dr. McCabe also testified that, you know,
5 people have been doing this for a good, a long period of
6 time and the technologies are readily available; correct?

7 MR. BOLANDER: Correct.

8 Q. So if it is possible, at least in some cases, to
9 capture and sell the flash gas from tanks, isn't it wasteful
10 to flare?

11 MR. BOLANDER: If the gas quality is such, and if
12 the vapor recovery can be sized for that volume of gas, it
13 could be too low for some design criteria.

14 Q. And I hear you on the contamination issue. And I
15 think there is a separate category if it's contaminated with
16 hydrogen sulphate, for example, we are not suggesting that
17 we think that flaring of contaminated gas is a waste. But I
18 guess my question is, if it is possible to capture and sell
19 this gas instead of it being flared, shouldn't that be
20 reported as a form of vented and flared gas on that section?

21 (Audio interruptions.)

22 MR. BOLANDER: If it can be captured through a
23 design or -- is anybody hearing that?

24 Q. I did hear it. It might be me. I'm sorry if it
25 is.

1 MR. BOLANDER: Okay.

2 HEARING EXAMINER ORTH: (unclear) Mr. Baake and
3 we will try again with Mr. Bolander.

4 MR. BAAKE: Sorry, Madam Hearing Officer, you
5 said I should mute?

6 HEARING EXAMINER ORTH: Just while he is
7 answering.

8 MR. BAAKE: Let me. Hold on. I --

9 HEARING EXAMINER ORTH: All right. Mr. Bolander,
10 try again.

11 MR. BOLANDER: Okay. If natural gas that is
12 being flared also off of a tank can be adequately designed
13 for vapor recovery, then that should be a preferred method
14 for capture as opposed to flaring.

15 Q. And as the rule is currently written, there is no
16 requirement to report flaring gas from a tank even if it can
17 be controlled; correct?

18 MR. BOLANDER: Not currently.

19 Q. Okay. Thank you Mr. Bolander, I would like to
20 move now -- let's do a very quick one, auto igniters.

21 MR. BOLANDER: Yes.

22 Q. Mr. Bolander, on I think it's 28 -- or 27 --
23 sorry -- 8.E(3) we had proposed requiring auto igniters and
24 continuous pilots in your flares. You heard Dr. McCabe
25 testify about why he believed auto igniters were more

1 **reliable continuous flares.**

2 I guess this is a clarification. I don't see a
3 **response to that particular recommendation. I do see a**
4 **response to the section it be 98 percent combustion. Am I**
5 **missing where you responded to the auto igniter point?**

6 MR. BOLANDER: I do not see that, see that in
7 there, you know, from our response. I failed to catch that
8 one. Apologies for that. You know, from our analysis and
9 review of, you know, various regulatory bodies that require
10 either/or give the ability, you know, for what type of
11 operation that works best for each.

12 In some cases be continuous pilot is, you know,
13 more effective in some sources than auto igniters which
14 ultimately the Colorado, still you see, ended up with their
15 final rule allowing for either/or. You know, understanding
16 that different conditions, whether it's continuous flow or
17 intermittent flow, one may be better than the other.

18 **Q. Thank you, Mr. Bolander. I'm not sure that's my**
19 **recollection of the Colorado rule, but that's not --**

20 MR. AMES: Objection. Objection. Question is
21 not -- counsel's arguments.

22 HEARING EXAMINER ORTH: (Inaudible.)

23 MR. BOLANDER: Mr. Baake, when you get an
24 opportunity, it's 903D5 in Colorado, which talks about the
25 flares. It doesn't talk about the 98 percent, but it does

1 give the or. I just wanted to point that out to you.

2 Q. Thank you, Mr. Bolander, I appreciate that.

3 I would like to now turn to pneumatic devices,
4 and I just to give a road map, we want to do pneumatics,
5 blowdown and completions, and that's all I have. So I'm not
6 going to keep you here too much longer.

7 I want to look, Mr. Bolander, at again, 27.8.G(2)
8 little (i). This is again related to pneumatic devices. So
9 this is actually your response to NMOGA's proposal, but
10 it -- we also want to discuss a change in the proposed
11 change in OCD's between the notice of rulemaking and the
12 beginning of this hearing, which is it not actually covered
13 in this document, but those are kind of our points of
14 reference.

15 Mr. Bolander, do you recall Mr. Lepore testifying
16 that the concept of waste is not static, but it's evolved.

17 MR. BOLANDER: Yes, I do remember Matt making
18 that comment.

19 Q. I think he even gave a specific example of high
20 bleed pneumatic controllers. Is that your recollection?

21 MR. BOLANDER: I do remember Matt making that
22 comment.

23 Q. So his point was that they were considered a form
24 of beneficial use years ago, but now they are considered
25 waste because there are alternatives that they can do the

1 same thing without venting. Is that your recollection?

2 MR. BOLANDER: That's what I understand, what I
3 remember, yes.

4 Q. Okay. So let's look at your comment -- let me
5 pull this up because I do think this is actually helpful to
6 have it up in front of us on this one. This is your comment
7 to 8.G(2)(i).

8 CHAIRWOMAN SANDOVAL: What line number is that,
9 Mr. Baake?

10 MR. BAAKE: I'm actually am not operating off the
11 one that has the line numbers. I do apologize.

12 Q. Here it is for pneumatic controllers and pumps.
13 I will zoom in on that.

14 CHAIRWOMAN SANDOVAL: It's 83, if anybody needs
15 it.

16 MR. BOLANDER: Thank you.

17 Q. Okay. So NMOGA had proposed to delete the
18 requirements to report venting from pneumatic devices. And
19 OCD rejected that, and they explain why. Let's look at that
20 this note here.

21 You said, "Venting and flaring from the normal
22 operation of pneumatic controllers and pumps is not counted
23 as lost gas. However, OCD proposes to require reporting
24 these volumes because pneumatics are considered one of the
25 largest sources of venting and flaring gas in New Mexico."

1 Putting that in the form of a question, do you
2 agree with what I read and the record is substantially
3 accurate?

4 MR. BOLANDER: Yes, that's what you read.

5 Q. Okay. So, and to clarify, even high bleed
6 controllers under the current rule are, are excluded from
7 the formula for calculating lost gas; correct?

8 MR. BOLANDER: Correct.

9 Q. And that's a change from the version of the rule
10 that was actually accompanied with the Notice of Public
11 Rulemaking; correct?

12 MR. BOLANDER: Correct.

13 Q. So in the original version, venting and flaring
14 of pneumatics would have counted against lost gas?

15 MR. BOLANDER: I, if I remember correctly, the
16 original that would have counted for pneumatics would have
17 been lost gas from malfunctioning pneumatics.

18 Q. So you don't -- you think it was only
19 malfunctioning and not --

20 MR. BOLANDER: Not normal operations.

21 Q. Not normal operations?

22 MR. BOLANDER: Yes.

23 Q. Well --

24 MR. BOLANDER: Okay. If we can pull that up, I
25 would appreciate that. I'm looking at a more recent copy.

1 Q. So, yeah. And so the reason why this is a little
2 tricky, is because we made our redlines on the October 15
3 version. So venting and flaring -- so venting and flaring
4 as a result of normal operations of pneumatic controllers
5 and pumps unless the operator vents or flares less than
6 500,000 cubic feet.

7 I think, it looks like that was originally i, and
8 I also actually have the original OCD. Yeah, do you see
9 this on the original version that was published for the
10 proposed rulemaking?

11 MR. BOLANDER: Correct.

12 Q. So that version, venting and flaring from the
13 normal operation of pneumatics was reported as venting and
14 flaring, and did it count towards the lost gas. And I will
15 pull this up here.

16 Mr. Bolander, let me know when it -- because
17 it's --

18 MR. BOLANDER: Right. I see it.

19 Q. So the reason why it's confusing is because it's
20 obviously, you have to put together the cross-reference, but
21 Subparagraph I is the volume of normal emissions of
22 pneumatics and not listed as one of the items excluded from
23 the volume and for purposes of accounting; is that correct?

24 MR. BOLANDER: Correct. It was corrected in our
25 post October because the intent was not to count normal

1 operations of pneumatics to -- because of its use, its
2 beneficial use.

3 Q. Okay. But Mr. Lepore testified the venting
4 release from pneumatics is not of beneficial use anymore, as
5 we already discussed; correct?

6 MR. BOLANDER: Mr. Lepore said that.

7 Q. And in your discussion here, you also said -- and
8 it's come up in the hearing -- brand new evidence that, that
9 volumes vented and flared from pneumatics are one of the
10 largest sources of waste, or one of the largest sources of
11 venting and flaring; correct?

12 MR. BOLANDER: That's what we have -- that's
13 what the results of the greenhouse gas reporting has been.
14 However it is not broken out by state outside of the report
15 and the MAP where it lists that it's one, one of the goals
16 of the Division's rules was to capture this data so the
17 state would understand what was the true volume from
18 pneumatics, and then understand what percentage is
19 considered low, intermediate and high, and then based on
20 that data, then have the ability to modify the rule if it
21 deems fit that they wanted to collect the data first,
22 understanding that pneumatic data or pneumatics typically
23 are considered beneficial use today, and then based on the
24 data and the results that we got, could it be changed in the
25 future.

1 Q. Okay. But, and you heard Mr. McCabe --
2 Dr. McCabe testify that there are in fact zero emission
3 alternatives to these controllers, that in his studies, that
4 they they can save -- that the gas savings from switching
5 over can pay for itself within a little over a year. Do you
6 remember?

7 MR. BOLANDER: Yes, I remember Mr. McCabe saying
8 that.

9 Q. If it is possible to completely eliminate this
10 source of waste, this source of venting, is it -- wouldn't
11 it be wasteful to not make that switch over?

12 MR. BOLANDER: If it can be done where there is
13 available, you know, resources to be able to do that, one
14 would be available electricity for, you know, power
15 generations to go in that direction.

16 However, from an operations perspective, I would
17 not recommend 100 percent replacement of gas driven
18 pneumatics, specifically on safety valves which typically
19 are intermittent design, which typically, you know, at best,
20 operate once a year when you test the functionality.

21 And for safety valves, I want to make sure that I
22 have the ability to actuate at a moment's notice. An
23 electrical power outage is not a risk I would be willing to
24 take for cases such as that.

25 Q. Thank you, Dr. -- Mr. -- Mr. Bolander; correct?

1 MR. BOLANDER: Yes.

2 Q. Seems like a doctor to me. I keep wanting to
3 call you doctor.

4 MR. BOLANDER: My daughter is one, if that helps.

5 Q. Mr. Bolander, I think Dr. McCabe also testified
6 that you can use instrument air as an alternative to
7 electric or natural gas. Can you address some of those
8 concerns about electrical outage?

9 MR. BOLANDER: Instrument air can be used,
10 however instrument air does require a compressor, and so it
11 requires some energy source to create it, so which that
12 could be natural gas or some other technology. I know we
13 tested fuel sales at Southwestern Energy to see if that
14 would be effective.

15 Q. So Mr. Bolander, it sounds like there may be some
16 discrete areas where you feel like, notwithstanding the
17 alternatives, using a gas driven pneumatic may still be
18 appropriate. But would it be possible to write a rule that
19 excludes those limited circumstances and says, at least for
20 high bleed controllers, at least in less critical functions,
21 it would be considered waste to use something like that?

22 MR. BOLANDER: I think right now it was the
23 intent of the reason why we wrote the rule like we did was
24 the ability to capture the data to understand what it was.

25 So the first intent in this case is to capture

1 data and exempt it from gas capture as it reads today.
2 Based on the results from the data, the data is there for
3 future regulations or the goals, or what the intent was, you
4 know, we did not want to write something where we were
5 uncomfortable with the available data since it was not on a
6 statewide basis, it was on a region.

7 Q. So Mr. Bolander, you think that the data is
8 insufficient to show that pneumatics are a significant
9 source of waste? I mean, I think that NMOGA recited in the
10 NMOGA report that is one of the highest sources of waste.
11 Dr. McCabe cited that is one of the largest sources of
12 waste, and based off your own language you agreed with that,
13 so I guess I'm not really sure, what is the, what is the gap
14 in the data that needs to be filled in with additional
15 reporting?

16 MR. BOLANDER: I think the gap is, and for us, is
17 looking at, whether it's the statute or the language that's
18 converted over into I think 19.15.2 on defining waste is
19 that we, you know, look at it in terms of, you know, can it
20 be used for beneficial use.

21 Obviously, pneumatic use of natural gas is for
22 beneficial, and can it be excessive. And I think once the
23 state gets the data to show that there may be some
24 pneumatics that are excessive, they can take action on that
25 and move forward.

1 Q. All right. Thank you, Mr. Bolander. I think
2 we've had about as much on pneumatics as probably anyone has
3 patience for, except for David McCabe, he would love to give
4 more on that.

5 Let's do some completions, can we?

6 MR. BOLANDER: Yes, we can.

7 Q. So this is the very, very first edit here on, on
8 27. Scroll up on it. So again, I'm going to refer you to
9 something you wrote in response to NMOGA, but related back
10 to an issue that we, we were interested in.

11 So in response to NMOGA's suggested changes, 7.D,
12 who wrote -- and I will highlight it here if I can --
13 "prudent operators should be setting their limit to
14 accommodate the max or near maximum flow in order to
15 initiate separation at the earliest possible time."

16 MR. BOLANDER: Correct. Which I think we have
17 covered in or language in 27.8.E(1) if I remember if that's
18 the right citation.

19 Q. 28.E(1)?

20 MR. BOLANDER: E(1).

21 Q. Production separation equipment and storage
22 tanks -- just give me a second here because I actually am
23 not -- this may be reduce the need for some of his testimony
24 if I can understand -- the intent of that section, E(1), is
25 that an operator shall design completion and production

1 separation equipment to maximize recovery -- okay.

2 So I guess my -- the intent of this provision is
3 if someone is doing a completion, they should be using a
4 separator and tanks and so forth that are designed to
5 accommodate the actual flowback that's going to occur;
6 correct?

7 MR. BOLANDER: Yes. The intent is to shorten the
8 initial flowback stage as short as possible. I said earlier
9 this morning in my testimony, I had mentioned that that was
10 mentioned by Tom Alexander yesterday when he brought up the
11 Fayetteville Shale where we designed our separators to be
12 able to flowback into and cut the initial flowback time from
13 days to hours. Yes, that's what that is intended to mean.

14 Q. So I guess my question is, is how the design
15 equipment -- I guess -- does that, to your mind, imply that
16 you are also required to use that during the completion of
17 operation and to have it on site at the outset of
18 completion?

19 MR. BOLANDER: Yes. You know, we were specific
20 in E(1) to make sure that that was -- that involved both
21 completion and production separation equipment.

22 Q. So, Mr. Bolander, did you listen to Ms. (unclear)
23 testimony?

24 MR. BOLANDER: Yes, I did.

25 Q. So you probably heard her testify to the fact

1 that -- car alarm.

2 (Car alarm.)

3 Q. -- that operators are not using properly sized
4 equipment and sometimes using a separator design for
5 production instead of a separation -- instead of one
6 designed for flowback emissions. Do you remember that?

7 MR. BOLANDER: Yes, and this language -- the
8 attempt of this language is to solve that issue.

9 Q. I appreciate that. That is not something that I
10 had really -- a provision I really focused in on, so that is
11 helpful. That's why we have the experts here. Let's switch
12 to blowdowns. This is in 28?

13 MR. BOLANDER: Correct.

14 Q. So 28, Section 8.B(3)(a), B(3)(a), so we had
15 proposed that venting and flaring should only be allowed
16 during scheduled maintenance and repair including during
17 blowdowns only where the gas cannot be rerouted back to
18 pipeline outside of the pressurized zone or otherwise
19 beneficially. That's what this is responding to, that
20 recommendation.

21 MR. BOLANDER: Right.

22 Q. And so this is really just a clarification to
23 start off. OCD believes these situations will occur
24 infrequently. Which situations are you referring to there,
25 situations where gas can be rerouted back into the pipeline,

1 or situations where it is not possible?

2 MR. BOLANDER: What we are referring to there is
3 the ability to transfer the gas to, you know, to be able
4 to -- to transfer the gas, you know, into another system to
5 be able to do so, what --

6 Q. So you believe that, that capturing and rerouting
7 is going to be not very often that is going to be possible?

8 MR. BOLANDER: In a gathering, what I would say
9 in a gathering situation where normally you have single
10 lines, you know, going to custody transfer points, that
11 would be the case there, you know, I think. And one of the
12 sections that we talk about in blowdown, you know, I
13 highlight the use of pump down techniques for, you know,
14 depressurizing, you know, your system or, you know, best
15 management practices to minimize your venting and flaring
16 when you do a reset situation and you don't have that
17 alternative.

18 Q. So again, you've already, you have already said
19 you heard Dr. McCabe testify yesterday. He testified that
20 in fact there are steps you can take to minimize waste
21 during blowdowns, including using isolation valves which
22 (unclear) plugs, it can be being replaced, and the gas can
23 be pumped out of a pipeline and compressed and then rerouted
24 to the sales line. Is that essentially what you remember?

25 MR. BOLANDER: Yes. That's what I just spoke to

1 a second ago concerning, you know, pump down techniques and
2 such.

3 Q. Right. Right. So you agree that that -- that
4 those are possibilities?

5 MR. BOLANDER: Correct.

6 Q. So I guess what I'm -- the disconnect I'm
7 struggling with here is why -- and you may have already
8 answered this, and I apologize if you have -- why do you
9 believe it's infrequent that this -- these waste prevention
10 methods will be employed?

11 MR. BOLANDER: If I remember the exact language,
12 it was the ability to transfer gas to another system. So
13 the comment was speaking specifically to that, not to other
14 technologies, and our goal, you know, by using a gas capture
15 percentage in the rule as opposed to, you know, prescribing,
16 you know, specific either processes or technologies is
17 designed for operators on really both sides of the equation,
18 upstream and midstream, to look at where they have the
19 greatest losses and fix those first.

20 And if blowdowns is their greatest loss then, you
21 know, they are going to do what they need to. But if they
22 are doing what, if they are already doing that, then we
23 would have a form to look at other categories to meet their
24 requirements.

25 Q. So I think if I understood, you are saying that

1 because that venting is -- less goes to the gas capture
2 percentage, you felt it was not necessary to specify that in
3 that section. Did I understand that correctly?

4 MR. BOLANDER: That is correct. Yes.

5 Q. And let me just see, I think I have one more on
6 blowdowns that may be -- I think it's -- Mr. Bolander, I
7 could, I could keep asking you questions, I find this
8 fascinating, but I think I will pass the witness. Thank
9 you.

10 MR. BOLANDER: Thank you, Mr. Baake.

11 HEARING EXAMINER ORTH: Thank you, Mr. Baake.
12 Ms. Paranhos, I see you.

13 MS. PARANHOS: Thank you, Madam Hearing Officer.

14 CROSS-EXAMINATION OF PANELIST BOLANDER

15 BY MS. PARANHOS:

16 Q. Mr. Bolander, I have what I think is a quick
17 question for you hopefully. First I wanted to say thank you
18 so much for your testimony and all of your time and for all
19 of OCD's time and hard work into this rule.

20 Hopefully yesterday you heard Tom Alexander's
21 testimony where he expressed some concerns about the revised
22 definition of a stripper well, essentially, wherein pursuant
23 to the current draft, OCD would just look at the operators'
24 gas production, per day not the oil production as well, and
25 he expressed some concerns about how that would potentially

1 allow operators with significant oil production to qualify
2 for some of the exceptions in the rule. Did you hear that
3 yesterday?

4 MR. BOLANDER: Yes, I did.

5 Q. I'm just curious, I didn't see in OCD Exhibit 4C
6 any mention of that testimony and I was just curious if OCD
7 had an opportunity to contemplate what Mr. Alexander had to
8 say, and if so, if you had any thoughts you could share with
9 respect to his comments?

10 MR. BOLANDER: Yes, yes, I do. I think we
11 probably, last night as we were finalizing that, we forgot
12 to add any comments relative to Tom's testimony, but what we
13 are looking at, if you look at the exemptions that we have
14 and you know, like to concentrate on two of them,

15 specifically meters and flares first. And that is, you
16 know, those two are meant to measure or flare natural gas.

17 The AVO, we feel like is captured in that, you
18 know, even with removing the exemption for oil in AVO, it
19 will still be subject to AVO, you know, regardless of its
20 production. You know, what we were looking at relative to,
21 and Tom's example, I think he used a hundred barrels per
22 day, 50 MCF per day, that is, that is the case, however, you
23 know, there are, you know, waterfloods in the state in
24 which, you know, there's minimal gas that could be,
25 facilities could be making hundreds of barrels and probably

1 make less than 10 to 15 MCF per day.

2 And when I look at, you know, when I'm looking
3 specifically at flare and metering, I wanted to make sure
4 that those were volumes that were based on a gas requirement
5 and not an oil requirement.

6 Q. Thank you for that answer. So just to make sure
7 I understand, the basis for the change was to just look at
8 gas production because the exceptions really are focused on
9 gas production? Is that --

10 MR. BOLANDER: That's correct. Gas production
11 and/or the gas through that facility.

12 Q. And so, I'm just curious, would you agree,
13 though, that these, the use of the stripper well qualifies
14 the operator for certain, what I would characterize as an
15 exception, not an exemption, from at least certainly the AVO
16 requirements and the retrofitting of flare requirements.
17 But that if one only looks at gas production and exclusion
18 of looking at oil productions, it is possible that you can
19 have an operator qualify for that exception, so less
20 frequent AVO, for example, monthly rather than weekly, based
21 on the fact that they produce a very small amount of gas
22 regardless of how much oil they produce?

23 MR. BOLANDER: That is correct because we're, you
24 know, effectively regulating natural gas waste and not, not
25 oil in this particular regulation.

1 Q. Okay, I think I understand.

2 MR. BOLANDER: Okay.

3 Q. Thank you so much. I appreciate it.

4 MR. BOLANDER: Thank you.

5 HEARING EXAMINER ORTH: Thank you, Ms. Paranhos.
6 Let's see, Commissioner Engler?

7 COMMISSIONER ENGLER: I have no questions. Thank
8 you.

9 HEARING EXAMINER ORTH: Okay. Commissioner
10 Kessler, we might have lost.

11 COMMISSIONER KESSLER: I do have a couple of
12 questions, but I was wondering if I could go after
13 Commissioner Sandoval -- Director Sandoval?

14 HEARING EXAMINER ORTH: Yes. Madam Chair.

15 CHAIRWOMAN SANDOVAL: I have quite a few
16 questions, okay. And I did not write exactly the words, so
17 that was not helpful. I think some of the beginning ones
18 were more for Mr. Powell. Okay. Yeah, I mean I don't
19 really honestly care who answers, as long as I get
20 information, it would be great.

21 Okay. Line Item 54 has to do with AVO. I think
22 you talked about this, Mr. Powell, and said it was intended
23 to just have very minimal recordkeeping requirements; is
24 that correct?

25 MR. POWELL: That is correct.

1 CHAIRWOMAN SANDOVAL: But the Division doesn't
2 plan to necessarily put out a form for this?

3 MR. POWELL: No, we don't. The intent was to
4 give the operator the ability to work it into their system
5 the best way that fits them. Most operators probably
6 already have it worked into their system one way or another
7 as far as just their standard leak detections as they do
8 their site inspections.

9 CHAIRWOMAN SANDOVAL: So I can't remember which
10 witness it was, the one for Enterprise, I'm blanking on his
11 name, said -- and I'm thinking Mr. Smitherman said that the
12 issue is not being on site, they're on site, they just don't
13 want to do paperwork. Do you recall that?

14 MR. POWELL: I do recall that, and I think it was
15 Mr. Thomson that discussed that they were doing some
16 inspections similar to Colorado where all they filled out
17 was a check box and then listed the deficiencies. That's
18 the level we were expecting out of this AVO.

19 CHAIRWOMAN SANDOVAL: So I think I have specific
20 questions for -- gosh, I'm totally blanking on his name, the
21 one from Enterprise. I apologize, I can't recall his name
22 off the top of my head.

23 MR. POWELL: Mr. (unclear)

24 CHAIRWOMAN SANDOVAL: That's it. Thank you. I
25 proposed some sort of option like, well, what if -- because

1 he was concerned about, I don't know, I guess all the
2 associated language that's in there, the fields, all this
3 stuff, it doesn't just say go look, see -- well, look and
4 see. Look, smell, hear. It says look, smell, hear and do
5 all of these other things, and that seemed to be their
6 concern.

7 And I proposed, well, what if they did the
8 comprehensive thing once a month and walked around the site
9 and did the other stuff every week, and he seemed amenable
10 to that. Would that still be the intent of what the
11 Division is trying to do?

12 MR. POWELL: I believe that would still meet our
13 intent. It probably would exceed what our original intent
14 was.

15 CHAIRWOMAN SANDOVAL: Okay. Thank you. Oh,
16 gosh, I have a lot. I'm so sorry. I'm going to go through
17 my written ones first, and then I may circle back on the
18 document that I have and all of those questions where I went
19 through your rebuttal and marked it off.

20 So I'm going to go through what I wrote down
21 during this direct and cross, and then we can go back to the
22 document, otherwise it's going to get messy.

23 87, it's the royalty interest. I guess my
24 question was, the proposal says, in the rebuttal it says
25 beginning January 2022 to add a date because I don't think

1 there was a date in there. I guess maybe this is a silly
2 question, but wouldn't they be reporting January's data in
3 March?

4 MR. POWELL: That would probably be correct.

5 CHAIRWOMAN SANDOVAL: So would it be more
6 appropriate to say beginning either January 2022 data
7 reporting, or February -- no, March 15 because it's 45 days
8 basically after. Is that, would that be more appropriate?

9 MR. POWELL: So that would be more appropriate,
10 and I think tying it in with the reporting time lines, so
11 the C-115s would probably be good that starting January
12 2022, January's information will be required 45 days after
13 on a monthly basis, or something along those lines
14 consistent with the 115 B language.

15 CHAIRWOMAN SANDOVAL: Okay, sorry. I'm making
16 notes. All right. Does the Division actually have any
17 language that they intend to propose yet where OCD agreed
18 with NMOGA that overriding royalty interest owners do not
19 require this reporting annual exemption requirement. Do you
20 have that language proposal yet or no?

21 MR. POWELL: We are working on it. I don't think
22 we have anything that's ready to be proposed. I think the
23 intent was to have that before it starts next Thursday, but
24 Eric may be able to answer that better later.

25 CHAIRWOMAN SANDOVAL: Okay. So I think you

1 talked about 77 -- sorry to go back one, I missed that
2 one -- and some of the reasons why, in your PowerPoint
3 (unclear) the property information. Do you have any
4 specific examples of maybe times where the Division, why the
5 information would be helpful on a facility basis or a well
6 basis as opposed to a lump of wells?

7 MR. POWELL: So I have had a couple of specific
8 examples. I don't remember the wells specifically, but I do
9 remember there's been times where an inspector or a
10 (unclear) well, two cases, one where an inspector has seen
11 flaring on a specific site, and then trying to allocate that
12 back to make sure that it was reported and couldn't because
13 it was on a property basis. We could just see that an
14 operator was reporting some venting somewhere in the system.

15 The other one was in response to a public concern
16 where the -- we had actually directed the operator to ensure
17 they reported the venting or flaring and then went back to
18 look and ensure that they did report that venting, it was
19 venting in that occurrence. And looking back again, we
20 could see that they reported venting to that property, but
21 we couldn't identify which well in that property that
22 venting was tied to.

23 CHAIRWOMAN SANDOVAL: Okay. I don't know if you
24 heard NMOGA bring up concerns about -- and I think this was
25 maybe Ms. (unclear), she brought up issues with sometimes

1 things aren't -- so there is a centralized facility that a
2 handful of wells goes to.

3 I guess my question is, if that was -- if that's
4 the -- she also referred to commingling. If that's the
5 situation, are they required to get commingling
6 authorization?

7 MR. POWELL: Sometimes. So if it's all on the
8 same lease, or all on the same unit and it's going to a
9 facility, then they don't have to have specific commingling
10 authority. If it's mixing leases, then they would have to
11 have surface commingling authority.

12 So it could be one or the other, and that was one
13 of the reasons why, with 115 B, we were looking specifically
14 at either a well or a facility to pinpoint where that
15 flaring is actually occurring because if it's occurring at a
16 facility, we want to be able to tie that venting and flaring
17 to that facility so we can look at the operations of that
18 facility. Because if we tried to disseminate it down to
19 a well level, we wouldn't be able to look and see what's
20 actually occurring on that facility either.

21 CHAIRWOMAN SANDOVAL: So I guess I'm wondering,
22 if that change is made in the rule, I think if we present
23 language for that, how would -- how would the operator know,
24 or the OCD know, for that matter, whether or not the
25 operator should be reporting on a well basis or a facility

1 basis?

2 I guess what I'm trying to say is, how would the
3 OCD know that an operator isn't trained to circumvent the
4 process and make it easier, potentially, for themselves by
5 reporting on a facility basis when maybe they should report
6 on a well basis? Do you see where I'm going?

7 MR. POWELL: Yeah. I think that's where we need
8 to be clearer, and we have some language in there, proposed
9 language, that that report is to happen separately for each
10 well or each facility to try to explicitly state that if
11 it's happening at a well level, they need to report at a
12 well level. If it's happening at a facility level, it needs
13 to be at a facility level. I don't know, does that address
14 your question?

15 CHAIRWOMAN SANDOVAL: Do you feel like that
16 language is clear enough to prevent any circumvention of the
17 rule?

18 MR. POWELL: Let me pull it up. Right now it
19 says the operator shall separately report for each well or
20 each facility, so --

21 CHAIRWOMAN SANDOVAL: I guess I'm trying to
22 figure out, how are they supposed to know when they report
23 on a well basis and when they report on a facility basis is
24 that I'm trying to figure out and how does the operator know
25 that.

1 MR. POWELL: We could go back and look and see if
2 we can clarify that more. I would say, wherever that flare
3 is at, or wherever that venting is at, they need to report
4 for that, whatever that is at a granular level instead of
5 trying to disseminate it back to one or the other.

6 CHAIRWOMAN SANDOVAL: Okay. Thank you. I think
7 this one is for Mr. Bolander. Completions operations are,
8 seems like, one of the favorites. I think you said earlier
9 and it came up in the testimony yesterday by -- oh my gosh.

10 I recall the testimony, I just can't remember the
11 names at this point apparently.

12 MR. BOLANDER: Mr. Alexander.

13 CHAIRWOMAN SANDOVAL: That's it, thank you. So
14 this morning you talked about how most of the examples you
15 gave were gas; correct?

16 MR. BOLANDER: Correct.

17 CHAIRWOMAN SANDOVAL: Would it be appropriate to
18 distinguish in the rule that maybe additional completions
19 requirements are necessary for gas versus oil wells, or is
20 that not appropriate?

21 MR. BOLANDER: We wrote the rule, you know,
22 obviously looking at it from a one-size-fits-all. When we
23 first wrote it we knew what Colorado had, but had no
24 tangible example of that being used.

25 Now that we do, it could be that we also have our

1 general requirement in 28.8.A which required operators, if
2 technically feasible, to flare over vent. So if a company
3 looks at that from an overall perspective, it should look at
4 all three categories of A, B, C and D, you know, from that
5 lens.

6 You know, if we wanted to modify 8.C, you know,
7 without, you know, cumbersome, making a more cumbersome
8 intent, we could add a qualifier in there that, you know,
9 based on well types, if it's technically feasible, operators
10 should meet the requirement in 8.A.

11 CHAIRWOMAN SANDOVAL: But you feel like in
12 general it's probably more feasible for gas wells than oil
13 wells?

14 MR. BOLANDER: Correct. I think in the -- the
15 one thing that have you with, with oil wells is that initial
16 flowback is going to be primarily fluid, you know, large,
17 especially in New Mexico where large, you know, slick water
18 fracs produce pretty large volumes of oil coming back, you
19 are going to have a lot of various flow regimes, where in
20 the northwest where most of them are energized fracs with
21 nitrogen or such, those would have a capability of capture
22 sooner with the goal of, you know, in both cases designing
23 your separation equipment to be able move from initial
24 flowback to separation, to me, that's the key is being able
25 to move from that step to the next. Because once you move

1 to the separation stage, that's where you have the ability
2 to officially treat the gas through separation and put it
3 toward sales.

4 CHAIRWOMAN SANDOVAL: Okay. I think at the
5 beginning of this you said it might be possible to add --
6 what was it said you there again, add some sort of statement
7 in C.

8 MR. BOLANDER: Yeah, some sort of statement in C,
9 that, you know, we -- the first part in C, if I can get to
10 it. If you don't mind, I will move to the right rule.

11 CHAIRWOMAN SANDOVAL: No, take your time.

12 MR. BOLANDER: You know, the way we have the rule
13 currently written is, "During initial flowback, operator
14 shall route flowback fluids to a completion or storage tank
15 and commence operation of separator as soon as technically
16 feasible for separator to function," and we can add language
17 within C(1) that adds a qualifier that if -- that the
18 ability to capture during the initial flowback is feasible,
19 that it be performed as well.

20 CHAIRWOMAN SANDOVAL: I'm just thinking. The UPS
21 man is outside my house, which is a very scary time of day,
22 so hopefully we don't -- he's a threat to the family, at
23 least for my dogs. Hold on. I apologize.

24 MR. BOLANDER: No problem. My dog has been
25 waiting to go on -- I actually have to spell the word

1 because he knows the word to go online, so he knows the
2 word.

3 CHAIRWOMAN SANDOVAL: Understand, very much
4 understand that.

5 All right. So there has just been a lot of
6 conversation about what you can model, what you can't model,
7 what you can measure or can't measure, estimate, can't
8 estimate.

9 I guess my question is, in your experience, I
10 believe you, one of -- I don't have the resume in front of
11 me. You were VP at Southwestern at one point.

12 MR. BOLANDER: Correct.

13 CHAIRWOMAN SANDOVAL: So do you have familiarity
14 with environmental reporting?

15 MR. BOLANDER: Yes.

16 CHAIRWOMAN SANDOVAL: So I guess some of the
17 testimony was that we are not sure the models are good
18 enough to permit, but your -- you are doing for sometimes an
19 over-estimation to make sure you stay within that limit, and
20 so it's okay for that, but to model things -- more
21 accurately -- or on a daily basis and to be more accurate,
22 models may not be the best option. Is that what you recall
23 hearing?

24 MR. BOLANDER: That's what I recall hearing. I
25 would like to push back a little bit on that general

1 statement, however.

2 CHAIRWOMAN SANDOVAL: Go ahead.

3 MR. BOLANDER: A lot of the software packages,
4 you know, are also used in the design of facilities and the
5 design of control equipment. And so, you know, they are
6 actually used in designing criteria on volumes going through
7 separation equipment or through vapor recovery, you know, so
8 you need a certain amount of accuracy to be able to design a
9 compressor for a vapor recovery unit on capture. And the
10 same software, in many cases, that's used for regulatory
11 permitting is also used in design applications.

12 So if it's good for on both ends of the spectrum,
13 it should be good for the middle.

14 CHAIRWOMAN SANDOVAL: From your experience, is --
15 are those modeling softwares also used to demonstrate
16 compliance, either yearly or monthly or whatever the state
17 or feds require, are those modeling softwares also used to
18 demonstrate compliance with inapplicable permits?

19 MR. BOLANDER: Yes, they have been used
20 specifically, you know, our HS&E air specialist would do so,
21 for example, responding to the Arkansas Department
22 Environmental Quality.

23 CHAIRWOMAN SANDOVAL: So for those responses, do
24 you believe that it was important to provide accurate
25 information?

1 MR. BOLANDER: Yes.

2 CHAIRWOMAN SANDOVAL: And you believe that that
3 modeling -- well, you and, I think, Southwestern maybe
4 believed that that modeling was the most accurate
5 information to represent what was happening at that site;
6 correct?

7 MR. BOLANDER: Correct.

8 CHAIRWOMAN SANDOVAL: Okay. So I don't exactly
9 recall, let's see, I think it was Mr. Greaves who spoke
10 about -- and I think you said earlier you missed this --
11 about a gas blanket on a tank and whether or not -- well,
12 Mr. Feldewert asked whether or not it could be modeled.

13 Now, I don't recall if he was talking about a
14 natural gas blanket or a nitrogen blanket. Are you familiar
15 with -- it's a technical supplement document from TCEQ about
16 aboveground liquid storage tanks?

17 MR. BOLANDER: I'm not familiar with that one,
18 no.

19 CHAIRWOMAN SANDOVAL: Okay. I'm going to read
20 you a blurb from it. It's talking -- it's under the
21 nitrogen blanketed tank section. It says, "Therefore when
22 determining emissions from nitrogen blanket atmospheric
23 storage tanks," which it notes is having to be 78 percent
24 nitrogen by volume, "No modifications to the AP42 equations
25 or software programs are required. The blanket will not

1 affect emissions if the tank is operated near atmospheric
2 pressure." Does that sound accurate to you?

3 MR. BOLANDER: That sounds accurate that they
4 acknowledge that the use of gas blankets doesn't affect the
5 use of modeling or even in the use of equations as well.

6 CHAIRWOMAN SANDOVAL: Okay. Thank you. Let's
7 see if I have any more tank questions.

8 Okay, so there was talk -- I think Mr. Baake
9 asked you about uncontrolled storage tanks -- I'm sorry,
10 controlled storage tanks and their exclusion from this rule.
11 Do you still believe, I mean, after some of that testimony,
12 that they should be excluded from this rule?

13 MR. BOLANDER: I would characterize, if it's
14 controlled going to a vapor recovery, then it should be
15 excluded from the rule. And if the vapor recovery
16 malfunctions, any losses would go under our malfunction
17 category. If it is flared due to H₂S it should be excluded
18 from the rule and should already be because we do have, you
19 know, characterization for H₂S.

20 However, if it's a control tank just for flaring
21 natural gas, that would indicate that it does have the
22 ability or possibility to be captured for beneficial use.
23 So in that individual case it could be added to the
24 regulation.

25 CHAIRWOMAN SANDOVAL: Thank you for that

1 clarification. I'm trying to group some of these, they're a
2 little all over, so I'm not hitting on topics four and five
3 times.

4 So I think NMOGA is wanting to exclude routine
5 downhole maintenance including operation of workover rigs,
6 manual liquids unloading, and uncontrolled storage tanks,
7 the pneumatic controllers and pumps, thief hatches and the
8 other category, for all of those categories that were just
9 listed, do you think that there is a way to measure,
10 estimate or model those categories well enough to report
11 under here?

12 MR. BOLANDER: If we step through them, if you
13 don't mind, and pull up my Section G, you know, the first
14 one being thief hatches, and those would be, you know, thief
15 hatches that are routed to a flare or a control device,
16 improperly closed, in those cases that means they're wide
17 open is the improper closing of them. And there, that can,
18 can be modeled, and in the case of where you have a control
19 device, that operating and capturing a certain volume of
20 gas, and that volume of gas decreases because that thief
21 hatch is open, that's a pretty simple math calculation
22 there. I think most of us can figure that one out.

23 As far as, if we move up, uncontrolled storage
24 tank, you know, through understanding of the models that are
25 out there, specifically some of the more recent models such

1 as ProMax which has the ability to model throughout the
2 system, uncontrolled storage tanks can be, I believe,
3 accurately estimated through modeling.

4 Manual liquid unloading, I believe, can be,
5 through the use of engineering equations, you know, I think
6 the data from the API ANGA report shows that use of emission
7 factors for manual unloading, you know, would result in an
8 accuracy level that would probably not be acceptable or
9 reliable for that, and I think, you know, that's one of the
10 reasons why we are asking for the methodology being used.

11 So I feel comfortable about manual liquid
12 unloading, and one the keys for manual liquid unloading is
13 to promote kind of a change in operator behavior in
14 reporting some of these and looking for areas where they can
15 engineer out some of these emissions.

16 And I understand, you know, I have had wells log
17 off at times when they are not even at a critical rate and
18 manual unloading is necessary, but there are, you know,
19 plenty of wells that are manually unloaded on a regular
20 basis. So behavioral change of counting that is, I think,
21 important.

22 Downhole maintenance, there are equations and
23 Subpart W, and I will admit on that, the accuracy level of
24 those is, on a well-by-well basis, is probably not where I
25 would want it if we are looking for accurate and reliable

1 data.

2 For all of the operations that we have mentioned,
3 you know, the specifically workover rigs where basically you
4 are trying to kill the well and you are going to have gas
5 release, you know, during the killing of that well, that's
6 going to be really difficult to estimate some of the other
7 operations, cold tubing units would be difficult based on
8 what the flow medium that you are doing, you know.

9 When I look at a swab rig, you can think of it as
10 just a big old plunger with a wire attached to it, so that
11 one does have the ability, I think, to be calculated, but
12 for all of the ones that are listed there are accuracy
13 concerns that it would have in that, based on what all
14 (unclear).

15 CHAIRWOMAN SANDOVAL: Okay, that's helpful. Does
16 this rule set a de minimus on venting? I think there's been
17 questions so far like, well, it's a small amount, so it
18 doesn't -- why should it count. Is there intended here to
19 be a de minimis on venting, like if it's under X amount,
20 then it doesn't count?

21 MR. BOLANDER: I don't think, you know, there
22 were in my one slide where I mention too small to measure,
23 in some of these there is not any good methodology to
24 measure so it makes it too difficult to come up with an
25 accurate, you know, volume to report on.

1 The intent is, you know, gas loss, you know,
2 every, I guess people that you've heard every molecule
3 counts, well, that would be true, so there is no de minimis,
4 but I feel you've got to have an accurate method of, a,
5 determining if there is venting occurring through a leak,
6 and do you feel comfortable with an accurate estimation
7 method.

8 If you're not and there's not accurate estimation
9 methods, you know, unfortunately there will be some venting
10 and that will more than likely not be counted because there
11 is no physical, you know, no either meter technique,
12 metering or estimation method.

13 CHAIRWOMAN SANDOVAL: Okay. I also -- there
14 seems to be some confusion, I just want to clarify this,
15 that just because -- let's see -- venting or flaring is
16 authorized in, what is it, C -- B, C and D.

17 MR. BOLANDER: Correct.

18 CHAIRWOMAN SANDOVAL: It doesn't necessarily mean
19 that it doesn't count against your gas capture percentage;
20 correct?

21 MR. BOLANDER: That is correct.

22 CHAIRWOMAN SANDOVAL: Okay. There seems to be
23 confusion around that. So the rule recognizes that some
24 things have to vent or flare, for that matter, some of it
25 would then just, what, tie back to whether or not you have

1 to submit a C-129? Because if it's authorized in one of
2 these B, C or D, then it's preauthorized and you don't have
3 to submit a C-129, or you still do?

4 MR. BOLANDER: C-129, we went back and modified
5 that to be specific with Rule 19.15.29, which typically was
6 C-141 reporting, which set thresholds for reporting, you
7 know, incidents of emergencies, malfunctions, or in the case
8 of our rule of, of a venting and flaring event of a long
9 duration within eight hours within a 24-hour period.

10 So that reporting is specific to more than
11 anything -- the ability to do a root cause analysis for
12 emergencies or malfunctions. For venting that is less than
13 the threshold that are specified in the rule are still
14 required to be reported if they are listed under 27.8.G(2),
15 which is the reporting function, regardless of volume.

16 MR. POWELL: I have a little bit of additional
17 information to that as well. The C-129, like Jim explained,
18 it applies to emergencies or malfunctions or venting greater
19 than 50 MCF. However, the other items that are in there,
20 even though they may not have to report on a C-129, would
21 still be reported on C-115 B as applicable, no matter the
22 volume they were at, whether it be above or below 50.

23 CHAIRWOMAN SANDOVAL: Okay. I also, I guess I'm
24 left with, after some of the testimony in questions, I have
25 a little bit of concern. Is the Division's intent for

1 industry to be able to decide when something is waste and
2 when something is not based on each individual release or
3 event or however we want to call it?

4 MR. BOLANDER: You know, hopefully the intent of
5 the reporting categories in G(2) which are reflected on the
6 C-115, we tried to be as exhaustive as we can, trying to
7 include categories that we view -- well, I was going to
8 say, we view all of them as waste, but some of them are not
9 counted as waste, such as emergencies, offset gas for H2S
10 and such and for events such as that, but the other
11 categories are counted as lost gas.

12 CHAIRWOMAN SANDOVAL: So the only place in the
13 rule where industry would make that assessment as to whether
14 the release is waste or not would be the other category?

15 MR. POWELL: This is Brandon, yes, as the other
16 category as we are proposing it now, we are adding the
17 reference to the waste rule, so they would have to make a
18 determine for that waste. But that would also apply to
19 categories where if we found it and felt it was waste as
20 well, we could apply it to that category as well.

21 CHAIRWOMAN SANDOVAL: Okay. But in general, the
22 rule is designed so that industry is not making that
23 decision on a day-to-day basis?

24 MR. POWELL: That is correct. On all of the
25 other categories those are preset out without making

1 determinations on each and every account, essentially.

2 CHAIRWOMAN SANDOVAL: Okay. Are either of you
3 familiar with the NMED's proposed draft rules on ozone?

4 MR. BOLANDER: I have looked at each of the
5 categories when we had our prep meetings with them, so I'm
6 familiar with them.

7 CHAIRWOMAN SANDOVAL: Okay. I'm going to refer
8 to, it's proposed Section 20-2 -- not dash -- 20.2.50.22,
9 standards for pneumatics controllers and pumps, and I'll
10 just read B -- so it's B(3) -- let's read B, B(3)(b),
11 "Owners and operators of each pneumatic controller located
12 at a well site, tank battery, gathering, existing site, or
13 (unclear) station with access to electrical power shall
14 ensure the pneumatic controller has a VOC emission rate of
15 zero."

16 If OCD added a provision in this rule to convert
17 controllers to instrument air or no bleed, would that be
18 duplicative of NMED's proposed rule?

19 MR. BOLANDER: I think it does, you know, we were
20 looking at this, and I understand the difference between the
21 three various type of pneumatic controllers, we put
22 pneumatic separate because, you know, their use is typically
23 on lease, and that natural gas is used for a function, so
24 therefore beneficial use.

25 Where, with NMED, they are regulating emissions

1 versus waste or beneficial use, so I see it's a little bit
2 different criteria on how the two different rules regulate.

3 CHAIRWOMAN SANDOVAL: Okay. Thank you.

4 MR. POWELL: I would add to that a little bit,
5 that based on the reporting we are getting for pneumatics,
6 that if they are successful on that rule change, we would
7 see the impacts from that rule in ours and we would be able
8 to evaluate those as well.

9 CHAIRWOMAN SANDOVAL: Okay.

10 I think you talked a little bit about this a
11 minute ago, Ms. Paranhos asked the question about the
12 stripper well removal of oil. You don't think that there is
13 going to be sort of situations where the new language
14 creates a loophole?

15 MR. BOLANDER: I don't. I'm sorry, I didn't
16 allow you to finish, Madam Chair.

17 CHAIRWOMAN SANDOVAL: I was just going to say,
18 for wells, I think his example was that has 100 barrels of
19 oil, and 20 barrels -- 20 barrels -- 20 MCF of gas, and now
20 they are going to qualify the stripper well under this rule
21 when really their economics are okay.

22 I guess our -- let me ask it this way. Are there
23 situations where like a well could be producing thousands of
24 barrels of oil and/or hundreds and really not -- and be
25 producing gas under that 60 MCF level, are there situations

1 that where it would be that kind of dramatic?

2 MR. BOLANDER: Yes. You are going to have cases
3 especially in the area where you have waterfloods where you
4 are going to, you know, facilities bringing in, you know,
5 several hundred wells will have oil production probably much
6 greater than 100 barrels per day, but the gas oil ratio is
7 so low, you know, in those fields that the volume of gas is
8 too small to really affect -- and, you know, really when we
9 look at it from a flare perspective and meter perspective,
10 we looked at it more from an operational perspective as
11 opposed to, you know, an economic driver.

12 Because typically on these, you know, you are
13 looking at volume of -- so that's why when I was --
14 directed -- directing or on the witness with Ms. Paranhos
15 was that looking at the three categories in terms of flare
16 meter, flare and meter design are specific to gas volume
17 only, you know, irrespective of what the oil volume is.

18 MR. POWELL: Just to add a little bit to that one
19 as well, in New Mexico we have some fields that probably
20 produce little if no gas in relation to the oil. So the
21 AVOs that would be required in those circumstances, we are
22 still requiring monthly AVOs on those, or we are requesting
23 them, but as far as a weekly in detecting gas, they would
24 provide no benefit because some of those wells are dead oil,
25 is what they call it, so there is no gas associated with it.

1 So there would be no benefit from my gas side of it to do
2 weekly inspections in those cases.

3 CHAIRWOMAN SANDOVAL: So it's not only looking at
4 the economic side, but also the practical operation side
5 that they have less, not ability, but potential to release
6 gas and so they are in a lower tier? Does that make sense,
7 sort of?

8 MR. POWELL: I think I would agree with that.
9 There is less potential risk because of some of the lower
10 gas volumes. There probably is some risk to them as they
11 talked about on ones that do have a higher amount of
12 associated gas, or if there could be some higher economics,
13 but there would also be some -- they have very little risk
14 of gas because of the very low volumes of gas. And in those
15 cases you would probably be looking at extremely low
16 pressures or low flows where metering may not be practical
17 anyway.

18 CHAIRWOMAN SANDOVAL: What about estimation?

19 MR. POWELL: They would still estimate and still
20 provide that in the reporting. So they wouldn't be exempt
21 from any of the reporting categories in G(2). It would just
22 be more limited to the meter requirements, the flare
23 upgrades and the AVOs.

24 CHAIRWOMAN SANDOVAL: Okay. all right. Thank
25 you, that's -- thank you for walking me through this. All

1 right.

2 In F, 27.F, and then I think it's 28.G is a
3 measurement section, if I can find it. What is Exhibit 28
4 on? It's F in 27, it's --

5 MR. POWELL: E.

6 CHAIRWOMAN SANDOVAL: It's before not after.

7 So I guess I'm just curious about what the intent
8 was here. So it's seems, while I could sort of almost read
9 the language two ways in F(2) where you are supposed to
10 retrofit sites -- well, it sort of reads like basically you
11 don't have to retrofit sites, you -- if it's a new site
12 built with an APD after the May 31, then you would have to
13 install meters, which I think makes a lot of sense, because
14 it's sounds like from the testimony that it's easier to
15 install when you are constructing.

16 But I guess I'm just curious what the intent was,
17 because in the midstream side it looks like they have to
18 retrofit. There is no, no timing, they just have to
19 retrofit.

20 But in the production it looks like they don't
21 have to retrofit, it's just going forward. I guess could
22 you provide clarity on what the intent of the Division was?

23 MR. BOLANDER: Okay. If I look at Part 28, which
24 is E(2), and the intent on that was that most of the volumes
25 coming in and out of the facilities of, you know, natural

1 natural gas gathering associated facilities is quite large.
2 So, you know, metering is practical for there, plus, as we
3 talked about, one of the reasons why we modified the
4 equation for calculating gas loss is, you know, because of
5 the complexity within the system, you know, as a matter of
6 course, they are going to be doing that to understand
7 shrinkage and all that that they've got.

8 As far as Part 27, which is for wells and
9 facilities, you know, we are looking at, the rule is based
10 on requiring meters, you know, on new facilities that meet
11 the volume threshold, knowing that if existing facilities
12 and wells, if metering equipment is not already installed,
13 then they are utilizing the state's GOR requirement to
14 calculate GOR to measure -- to calculate the volume of gas.

15 And we've added, you know, some language in there
16 that, that was new from the prior that gives the Division
17 the opportunity to look at that data, you know, in addition
18 to what's on the form to convert, you know, to look at for
19 accuracy. And then we have also modified the language in
20 F(7) that if the Division determines that the GOR test is
21 not sufficient, then the Division may request metering be
22 accomplished.

23 CHAIRWOMAN SANDOVAL: Okay. So basically the
24 difference is recognizes the differences in the operations
25 and how they function and so they are tailored to each?

1 MR. BOLANDER: Correct.

2 CHAIRWOMAN SANDOVAL: Okay. Thank you. All
3 right. Now I have all the questions about (unclear).

4 HEARING EXAMINER ORTH: Madam Chair, we have been
5 going about two hours since the last break. Shall we take
6 another break?

7 CHAIRWOMAN SANDOVAL: That's fine.

8 HEARING EXAMINER ORTH: All right. Is ten
9 minutes enough, 4:45?

10 CHAIRWOMAN SANDOVAL: That works for the
11 witnesses and court reporter

12 MR. POWELL: That works for me.

13 (Recess taken.)

14 (Discussion off record.)

15 HEARING EXAMINER ORTH: Commissioner Engler, are
16 you ready to back on the record?

17 COMMISSIONER ENGLER: Yes.

18 HEARING EXAMINER ORTH: Madam Chair.

19 CHAIRWOMAN SANDOVAL: I think Commissioner
20 Kessler is going to go before me, before I finish up, if
21 that's okay.

22 HEARING EXAMINER ORTH: Terrific. Commissioner
23 Kessler.

24 COMMISSIONER KESSLER: Mr. Powell, I have one set
25 of questions for you related to Line 87 in the rebuttal

1 exhibit and it's the royalty reporting requirements.

2 I wanted to know, what does the OCD contemplate
3 happening if owners, if royalty owners are unlocatable?

4 MR. POWELL: So I'm not a real in-depth royalty
5 expert, so I would ask that maybe Jim can help me out if I
6 don't -- but I think we are trying to bring some of that
7 subset down for some of the royalty owners that are in
8 regular communication, but I -- I would ask that maybe Jim
9 could help me out on that one a little.

10 MR. BOLANDER: Thanks, Brandon. I think what we
11 are thinking of there, Commissioner Kessler, is, you know,
12 one of the first areas that we addressed was override
13 royalty interest owners knowing that it was more of a
14 contract as opposed to a mineral interest owner.

15 And, you know, we are aware that there are
16 royalty interest owners that are unlocatable, and we also
17 understand that, when that's the case, most of these
18 companies hold the royalty in reserve, or whatever word that
19 is. And, you know, we would ask that part of that, if they
20 are holding the reserve, that they are holding the data to
21 provide them when they are located.

22 Even though we currently aren't -- it's not
23 spelled that way, but I would, you know, request that we
24 have the language in there that allows that to, that
25 allowance when, you know, it can't locate a royalty interest

1 owner, that that data be held for when they do.

2 COMMISSIONER KESSLER: I am familiar with --
3 (Audio difficulties.)

4 COMMISSIONER KESSLER: Mr. Bolander, in the
5 process of trying to get in touch with royalty owners or
6 overriding royalty interest owners through the compulsory
7 pooling process where you are required to provide notice
8 through certified mail and then publication if, if other
9 information about addresses doesn't come to light. And I'm
10 just trying to think through how an operator could attempt
11 to comply in good faith with the rule as it's currently
12 written, but fall short of that if they're not able to find
13 an interest owner or other various witnesses have opined
14 related to the contractual agreements that royalty owners
15 fall under an operators', you know, potential notification
16 standard's. So I'm just trying to think through how an
17 operator could comply with that. I think it's a good
18 suggestion to be able to hold that information if an
19 interest owner is unlocatable and making sure that that
20 language is in the regulation. I think that's a really
21 great idea.

22 MR. BOLANDER: Brandon had mentioned we were in
23 process of adding a few changes to that specific section as
24 well, so adding language that allows that, you know, so an
25 operator doesn't come out of compliance or falls out of

1 compliance for a reason that's beyond their control is, you
2 know, definitely an edition that should take place.

3 COMMISSIONER KESSLER: What about, Mr. Bolander,
4 spelling out in more detail what it means to submit
5 information to the royalty owners? Do you contemplate
6 certified mail, do you contemplate an electronic report, do
7 you contemplate some kind of opt-in provision where a
8 royalty owner is able to request information, but not
9 entitled to it? What other -- are any of those other
10 changes contemplated?

11 MR. BOLANDER: We have gone through this
12 provision and worked as a team. We haven't come up with a
13 definitive answer on that. I know that one example is that
14 royalty checks that go out typically on their check stub
15 incorporate a lot of information regarding disposition of
16 the oil and gas taxes and such, you know, that's an
17 opportunity to provide that information on a check stub, as
18 well as, you know, providing copies of C-115 or other
19 methods.

20 I know many companies on their website for
21 royalty owners have a place where they can go and always
22 have access and that information could be provided there.
23 And the Division hasn't finalized the methodology of how
24 that would be, knowing that different companies, based on
25 their various technologies that they utilize, may use

1 different methods to convey the volumes of vented and flared
2 gas, you know, between -- based on their size and/or, you
3 know, what their -- how they are doing it today.

4 COMMISSIONER KESSLER: That's (). I think that
5 you are the appropriate witness for my next two questions.
6 There were a couple of sets of questions previously related
7 to safety concerns related to liquids unloading and the need
8 for a member of the operator's team to be on site while
9 liquids unloading is occurring. Do you have an opinion
10 about that?

11 MR. BOLANDER: There is two components of an
12 operator being on site during a liquid unloading event. You
13 know, one, dependent upon, you know, if this is the first
14 time he's unloaded this well or not, he doesn't have a
15 definitive time of when that well will become unloaded,
16 capable of then being put back into the sales line.

17 So if he is off location when that occurs, then
18 now that well is now venting and capable of being placed to
19 sales. So, therefore, in this case, you've got excess
20 venting that could go on for, you know, any period of time.

21 And even in wells where, you know, that unloading
22 occurs on a regular basis, it doesn't always happen on an
23 estimated time. It's average. You may know that this well
24 unloads on average in a two-hour time period, but it could
25 be an hour and a half. So there therefore, you got 30

1 minutes of excess venting and the volume that the well
2 normally produces on a daily basis and that becomes excess
3 venting that's occurring that should be, you know, piped
4 down the sales line.

5 As far as safety reasons, and in most cases,
6 wells are being unloaded, you have a good understanding of
7 your well pressure, which your bottomhole pressure is
8 estimated, you know, what rates are coming back. There is
9 always a risk in any operation that we do of safety, and you
10 know, having that person on location to be able to react
11 while on location as opposed to not knowing what is actually
12 happening is another benefit of being on location during the
13 unloading event.

14 COMMISSIONER KESSLER: My last question is also a
15 safety related question. Yesterday there was a -- I can't
16 remember if it was a witness or counsel that indicated that
17 industry concerns for safety were essentially overblown with
18 respect to green completions, and the industry was using
19 safety concerns as a reason to not want to perform green
20 completions. Do you have an opinion on that?

21 MR. BOLANDER: Yes. Actually that was probably
22 in concern to my original testimony back -- I can't even
23 remember what day my direct testimony was -- the safety
24 concerns during the initial flowback period, and you know,
25 my concern there is, and you know, try to highlight that

1 this afternoon, was during the initial flowback stage,
2 depending on the type of well, there could be issues with
3 over-pressurization of the tanks due to the high liquid
4 volume coming back. So that observation was from me, not
5 from industry.

6 COMMISSIONER KESSLER: Those are all of my
7 questions.

8 HEARING EXAMINER ORTH: Thank you, Commissioner
9 Kessler. Madam Chair.

10 CHAIRWOMAN SANDOVAL: This may be a dumb
11 question, but I'm going to ask it anyway. In the definition
12 of emergency, 7.G(6), so it's Line 8 of the rebuttal
13 testimony -- maybe I'm thinking about this wrong. It's the
14 last line says "Notably OCD's definition of emergency allows
15 three emergencies in 60 days, which is more generous than
16 BLM's definition of 30 days." So does BLM's definition say
17 three emergencies in 30 days, or do you know?

18 MR. BOLANDER: Their language is three or more
19 emergencies within the past 30 days, and ours is three or
20 more within 60. So, you know, Mr. Feldewert was correct
21 that our -- so the third emergency is the catch point. So
22 really you're allowed two, and the third for both OCD and
23 BLM is three -- at the point of three, that's when the, the
24 exception goes away.

25 CHAIRWOMAN SANDOVAL: But -- okay, maybe I'm

1 thinking about this wrong. I don't know why this is
2 catching me, but okay. If you get three emergencies, let's
3 just say it's three, I know I think the point made earlier
4 was it's two, let's just go with three at the moment. If
5 you have three -- you are allowed three emergencies in 60
6 days, wouldn't that actually be less generous than three
7 emergencies in 30 days? Because if you get three
8 emergencies every 30 days, in 60 days you would get six
9 emergencies whereas this is three; right?

10 Am I thinking about this wrong?

11 MR. POWELL: This is Brandon. I see what you're
12 saying.

13 MR. BOLANDER: I see what you are saying.

14 MR. POWELL: It's actually more restrictive.

15 CHAIRWOMAN SANDOVAL: Right, so it is.

16 MR. POWELL: Yes.

17 MR. BOLANDER: Yeah.

18 CHAIRWOMAN SANDOVAL: Okay, all right. I
19 just -- I really struggled with that one today, and it
20 sounds a little silly. All right. Thank you.

21 MR. BOLANDER: Been a long process trying to
22 doing math sometimes.

23 CHAIRWOMAN SANDOVAL: () so understandable. I
24 just wanted to confirm that. All right.

25 So Line 41, this is a NMOGA recommendation, it's

1 about designing facilities I think for maximum anticipated
2 throughput, NMOGA wants to strike maximum. I mean, in
3 facility design if flowback -- not that -- that's going to
4 be when your flare is going to be your highest; right?

5 MR. POWELL: Correct.

6 CHAIRWOMAN SANDOVAL: So how would, how do you
7 design a facility if not for that volume?

8 MR. BOLANDER: That's, I think, the point of our
9 language in 8.E(1) is, you know, we address it for
10 completion and production separation, and if you are using,
11 for example, rental, you know, completion equipment or if
12 you have your own completion equipment that you move from
13 well to well, you know, the idea is that it be designed for
14 maximum capacity. And the reason being is that will reduce
15 the length of that initial flowback period of being able to
16 separate the gas.

17 Many companies today are flowing wells back
18 through their production separation equipment. And if they
19 design for the, you know, anticipated rates that would be,
20 you know, from a production standpoint, they would be much
21 lower than what they would experience during flowback, yet
22 they are performing that process of flowback with their
23 production equipment.

24 So they should be designed to, you know, take
25 advantage and ability to put wells to sale as soon as

1 possible because the additional gas that's recovered during
2 this operation, at least, you know, from, from my experience
3 at Southwestern Energy, predominantly from gas wells, that
4 we were able to capture gas that would pay for the upsizing
5 of the compress -- of the separator and then even later,
6 that additional production paid for changing them out if we
7 deemed it necessary to a smaller separator.

8 CHAIRWOMAN SANDOVAL: Okay. Thank you. I think,
9 actually if you go to the next line, I turn to the rule. In
10 the rule it's E -- 7.8.E(2). It's the storage tanks ()
11 gauging performance-standard. I am trying to find my -- so
12 Mr. Smitherman talked about how () like, quote, tried and
13 true methodologies and may not allow manual gauging, do
14 you -- and then we have not heard any -- I have not heard
15 any other testimony on this, and I believe NMOGA wants to
16 strike the entire provision. I guess I'm just wondering, do
17 you have any additional information on that?

18 MR. BOLANDER: You know, I can't speak for all
19 companies or oil purchasers and what their requirements are
20 in terms of that to speak on it from that standpoint. You
21 know, the use of an auto gauging system can be, you know --
22 you know, multiple technologies, including a simple float in
23 a well that estimates, you know, that gives you the volume,
24 the rise of the fluid in there to be able to estimate or
25 calculate based on the size of your tank the volume produced

1 that day, but if an operator is going to that tank on a
2 daily basis and measuring oil volume, and he is able to do
3 it using an automatic gauging system, and he does that five
4 times a week and on day six he is required to manually gauge
5 it, well, that's five days he didn't have to open up that
6 thief hatch, only one time when oil was being pulled.

7 So even in that case it doesn't preclude you from
8 manual gauging, but it does allow you to auto gauge when you
9 most frequently check oil volume.

10 CHAIRWOMAN SANDOVAL: Okay. That's a good
11 clarification. So just to make sure I understand, if they,
12 for example, the purchaser needed or required a manual
13 gauging, they could do that, but that would -- that would be
14 a oneoff versus, you know, maybe every other time that
15 somebody's got to gauge that tank?

16 MR. BOLANDER: Correct.

17 CHAIRWOMAN SANDOVAL: And it doesn't preclude you
18 from opening --

19 MR. BOLANDER: Not with some of the technologies
20 that I have looked at.

21 CHAIRWOMAN SANDOVAL: What about -- so into --
22 the operator of a permanent storage tank associated with
23 production operations, that rise goes to a flare control
24 device. Why is it just tanks that rise to a flare control
25 device? Is that like the only way it works?

1 MR. BOLANDER: No. We were looking at, you know,
2 in terms of opening thief hatches, you know, that tanks that
3 were, were routed to a device had more emissions that they
4 were releasing. Tanks that are not, that are, you know,
5 basically operated under a couple of ounces of pressure, and
6 pressure is released through simple enardo-type vent valves,
7 you know, through my research and visiting with some of the
8 research firms or engineering firms on modeling, they saw
9 very little difference of what was released through a vent
10 valve versus a gauging exercise.

11 So based on that, you are still going to have the
12 same emissions, so that's why we felt like that the best
13 bang for your buck for installing the auto gauger would be
14 to prevent any losses on tanks that we knew had excess
15 flashing going on.

16 CHAIRWOMAN SANDOVAL: Okay. That's really
17 helpful, thank you. Line 60, is the new proposed language
18 intended to go with like the end of that, of 7, F(7)?

19 MR. BOLANDER: Yes.

20 CHAIRWOMAN SANDOVAL: Okay.

21 MR. BOLANDER: New 8.5. Yeah, that's our kind of
22 probably 10 o'clock last night early proposal.

23 CHAIRWOMAN SANDOVAL: Okay. And then my other
24 question is -- it was -- switch here. I believe it was --
25 oh, gosh, I can't remember again which one it was -- said

1 that the heating -- I believe it was Mr. Greaves -- said
2 that the heating value was unnecessary in F(6). Do you
3 agree with that or have an opinion on that?

4 MR. BOLANDER: I don't have an opinion. One of
5 the areas that we were looking at in trying to strengthen
6 that, this is language that is actually in BLM language in
7 their 3170 series on measurement where they require
8 operators to have that information available if the BLM
9 requires submittal of that information.

10 So we were just trying to be, in this case,
11 consistent with BLM language relative to Rule 3170, and
12 unfortunately I didn't copy that out -- oh, yes, I did.
13 Hold on a second. It would be Rule 3179.301B2.

14 CHAIRWOMAN SANDOVAL: Okay. That was helpful.
15 Thank you.

16 Line 79, sort of in the middle there is a
17 statement, "OCC has the authority to require reporting in
18 order to further its objective of preventing waste both in
19 the present example to obtain relevant information regarding
20 the scope of venting and flaring and in the future example
21 of venting and flaring become waste as capture technologies
22 become available" -- I guess -- is this something you can
23 elaborate on, what that is intending to mean?

24 MR. BOLANDER: The intent there, and a good
25 example on that would be our requirement not specifically in

1 this section, but on the reporting of pneumatics is, as we
2 gather data on pneumatics within the state, if we see areas
3 of concern, that becomes, you know, future ability to
4 regulate.

5 I think probably in this section we were trying
6 to capture all of our thoughts around all of these reporting
7 categories as being finite to individual categories within,
8 you know, the reporting section.

9 CHAIRWOMAN SANDOVAL: Okay.

10 MR. POWELL: This is Brandon. I got a little bit
11 more to add. This also touches on when I was responding to
12 Mr. Feldewert, that the normal operations, if they become
13 excessive, then they become waste. So if we find things
14 that are becoming excessive through new technologies, and we
15 deem that to be waste, then we can include that in this
16 rule.

17 CHAIRWOMAN SANDOVAL: In the future?

18 MR. POWELL: In the future, yes.

19 CHAIRWOMAN SANDOVAL: Okay. Understood. One
20 thing that actually was not, I don't think, on the
21 spreadsheet, maybe I missed it, so in 27.9.B -- yeah 27.9.B,
22 I think NMOGA proposed February 28 as opposed to February
23 15.

24 Does the Division have any sort of thoughts on
25 that? I think NMOGA said something along the lines of they

1 wanted a little bit of time after February 15 after they
2 turn in their C-115 B to wrap it up, maybe?

3 MR. POWELL: I think that's just to give a little
4 bit of accounting time at the first of the year. I don't
5 know that that would be crucial to us between those two
6 dates because it's just on the first part of each year.

7 MR. BOLANDER: I would agree with Brandon on
8 that. I don't think there is any -- 15 days is not going to
9 make a difference there on how we evaluate.

10 CHAIRWOMAN SANDOVAL: Okay, that's good
11 information. All right. So that's all of mine in 27.

12 Let's go to 28, Line 19. So the response on Line
13 19, the response on Line 19 was operators will route
14 saleable gas into a pipeline whenever possible. I guess my
15 question is, are they actually going to? Do we really
16 expect them to? I mean, is there a, is there a chance they
17 won't and that's something we need to clarify?

18 MR. BOLANDER: I think here in our language we
19 did not include this requirement, you know, and I think for
20 the reason that, you know, that if it's possible -- it gets
21 back, Madam Chair, you know, when I see there -- our goal
22 and design in regulations were to be more performance based
23 using 98 percent capture rate, and you know, for many
24 companies to reach that, they will require doing techniques
25 such as routing gas to a pipeline when possible, you know,

1 utilize other access such as pumpdown and other techniques
2 to meet their requirement.

3 You know, so we wanted to leave the overall rule
4 more performance based as opposed to being prescriptive, but
5 obviously this is an area that there is an opportunity for
6 midstream operators to reduce their volume of venting and
7 flared gas.

8 CHAIRWOMAN SANDOVAL: Okay. The next one is
9 actually the next line, and I don't actually remember any
10 testimony on this. Maybe I should -- I'm overwhelmed with
11 so much testimony.

12 And I'm not actually seeing it in any NMED -- in
13 NMOGA's proposal. It says, "Reduce inspection frequency
14 from weekly to monthly and exempt production equipment at
15 sites" -- oh, I'm reading that differently than -- never
16 mind. Scratch that. I can't read. Reading is hard today.

17 I think my last -- well, let's see. Yeah, my
18 last question is on 28, Line 15. I just -- I just wonder
19 if you have any additional perspectives on 10(A), that sort
20 of section that requires the consolidation of companies, and
21 we saw the sheets and sheets and sheets of companies and/or
22 smaller companies that roll up to the larger parent
23 companies, I just wondered if you had additional information
24 that you could provide on that from the Division.

25 MR. BOLANDER: You know, we were -- we saw the

1 proposal, you know, from the NMOGA on this. In our original
2 October draft, you know, this was not even contemplated on
3 affiliates. And their recommendation was to allow either or
4 reporting on affiliated basis or not, and you know, either
5 in our lack of wanting to be consistent, we thought it would
6 be better to choose one option over the other, you know,
7 thinking from more of a clarity perspective. But if there
8 are reasons to report separately, you know, I don't think
9 there could be -- as long as it can be accounted for, you
10 know, it would make sense because if they did want to report
11 separately then each of those entities would have to meet 98
12 percent, where we were thinking of more of a, you know, give
13 a one -- go one route over an option.

14 CHAIRWOMAN SANDOVAL: I guess -- go ahead,
15 Brandon.

16 MR. POWELL: I'm sorry. Brandon Powell. I think
17 to add a little bit more to that. Currently right now it's
18 parent companies that report on the C-141s for any gas
19 releases, so the intent was more a parent company actually
20 providing that data and being responsible for it.

21 CHAIRWOMAN SANDOVAL: Okay. I mean, I guess,
22 from the Division's perspective, or I mean, could you see --
23 could you see any like logistical issues from the Division
24 if it had 50 people reporting versus one, and like how that
25 data would roll up, or not really?

1 MR. POWELL: I could potentially, just based on
2 my history, could see that. You know, each company in our
3 system used to get a separate OGRID number, and at one time
4 I think we had 20 different El Paso OGRID numbers, so it was
5 really hard to identify which OGRID was the parent OGRID,
6 and it makes it tough when you have a bunch of different
7 operators all named relatively the same of getting that
8 information crossed and going to the right place.

9 And then if you have a poor performing area, I
10 guess my fear would be putting them under an affiliated
11 operator and separate it out from the rest of the system.

12 CHAIRWOMAN SANDOVAL: Okay. I think I asked this
13 question of Mr. Craft. This also is, if an operator chose
14 to report under its sub companies, not the parent company,
15 would that also impact the GIS mapping that the Division
16 would get under, under 9?

17 And I guess -- I guess I'm sort of wondering if
18 it would then be a situation where, like, I don't know, you
19 get one compressor station, a pipeline on one GIS, and then
20 another over here and, like, it's sort of puzzled together,
21 would that, I guess -- okay. I'm not speaking very well,
22 I'm sorry.

23 If they are reported by each affiliate, would
24 that also roll down to other parts of the rule like the GIS?

25 MR. POWELL: I haven't looked at that

1 specifically, but that would be my -- I would have that fear
2 because you would be looking at pieces of the puzzle instead
3 of the whole puzzle.

4 So, again, it would be harder for us to track
5 down who might be responsible or who could respond in those
6 emergency situations.

7 CHAIRWOMAN SANDOVAL: Okay. I think that was my
8 last question. Thank you. Thank you to both of you.

9 MR. POWELL: Thank you, Madam Chair.

10 HEARING EXAMINER ORTH: Mr. Ames, you said you
11 have some follow-up.

12 REDIRECT EXAMINATION OF
13 PANEL MEMBERS POWELL AND BOLANDER

14 BY MR. AMES:

15 Q. I do. Just a few questions, Brandon and Jim.

16 Jim, question for Jim. Brandon was asked if the
17 OCD proposed to exclude overriding royalty interest owners
18 from the royalty reporting requirement because overriding
19 royalty interest owners were difficult to notify.

20 Did you hear any other testimony during the past
21 few days that supports exempting overriding royalty interest
22 owners from the reporting requirement?

23 MR. BOLANDER: I think here to clarify on
24 overriding royalty interest owners, that would not fall into
25 the category of difficult to, to contact. That would be

1 some of the mineral interest owners, and you know, which
2 have lost contact with the operators, and that's one of the
3 questions that Commissioner Kessler brought up.

4 Most overriding royalty interest owners are
5 through a contract with the operator or the working interest
6 owner himself. So in that case it's -- I wouldn't see that
7 as less of a contact, but less than a mineral interest owner
8 who has interest in the minerals themselves, so more of a
9 transactional ownership as opposed to a mineral ownership.

10 **Q. Do overriding royalty interest owners have**
11 **correlative rights?**

12 MR. BOLANDER: No, not that I'm aware of -- that
13 was too emphatic of an answer. Not that I'm aware of.

14 **Q. Brandon, you were asked about WELC's proposal to**
15 **auto deny APDs if an operator is out of compliance. Can you**
16 **tell us how long it might be before an operator spuds a**
17 **well -- well, let me ask it differently. How long before an**
18 **operator spuds a well does it start planning to drill that**
19 **well?**

20 MR. POWELL: It could be years ahead. We've had
21 APDs after extensions -- the initial APD and subsequent
22 extensions be two to three years out, roughly.

23 **Q. Can you tell us about drilling schedules, for**
24 **instance?**

25 MR. POWELL: What they do is they get their APDs

1 approved. Once they have a package of APDs approved
2 typically then they would go out and look at getting a rig
3 and a drilling schedule so then they could start drilling on
4 a package of wells.

5 Because a lot of times it's not economical to
6 pull a drilling rig out for a single well and then send it
7 to back to the yard, so they would want a volume of APDs to
8 start working through a field.

9 **Q. Do these companies plan their capital investments**
10 **ahead of time then?**

11 MR. POWELL: I have not been directly involved,
12 but I have been told that they plan a year to two years
13 ahead at times depending on the field.

14 **Q. So let's consider the example like for instance**
15 **an operator submits an APD in March of a particular year,**
16 **the operator is currently out of compliance but has a plan**
17 **to come into compliance within four to five months, the OCD**
18 **would review that plan, I assume?**

19 MR. POWELL: That would be correct.

20 **Q. And assume that the OCD agrees with that**
21 **operator, under WELC's proposal, would OCD be required to**
22 **deny the APD?**

23 MR. POWELL: Under their proposal, yes, it would
24 be required to be denied.

25 **Q. What effect do you think it would have on**

1 **development and investment decisions in the oil and gas**
2 **industry in New Mexico if OCD denied APDs again and again**
3 **because an operator was out of compliance?**

4 MR. POWELL: I think operators would probably
5 look negatively on that investment. And in addition to that
6 it would also create an additional burden on the Division as
7 well if the Division has to keep continuing auto denying it
8 after they review it, because that's something I don't know
9 that we could automate, so we would be reviewing each and
10 every one of those APDs and then denying it and then we
11 would have to re-review the submittals as they come in.

12 **Q. Turning to another topic, Section Part 27, 95,**
13 **you were asked to agree, Brandon, that an operator should be**
14 **required to select one out of nine alternative benefits of**
15 **uses for its venting and flaring plan; is that right? Do**
16 **you remember that?**

17 MR. POWELL: I do remember that.

18 **Q. Would OCD approve an APD if that venting and**
19 **flaring plan is not adequate?**

20 MR. POWELL: No, we would not.

21 **Q. Would the OCD put a condition in the APD to**
22 **ensure that the operator actually follow through on the**
23 **venting and flaring plan?**

24 MR. POWELL: Yes, we would.

25 **Q. If an operator selects one of the nine beneficial**

1 uses, but then changes its mind somewhere down the line and
2 wants to use a different one, would that be okay?

3 MR. POWELL: Yeah, that would be fine because it
4 would still meet the intent of that provision.

5 Q. Could adding a selection to 95 be construed to
6 limit the Division's ability to condition the APD?

7 THE WITNESS: I would believe so because they
8 would be locked into whatever they selected without
9 additional submittals.

10 Q. So are you saying that adding the word select
11 could make it difficult for the operator to change uses, one
12 beneficial use to another?

13 A. I would say so because one of the rules that we
14 have for enforcement says an operator has to follow every
15 provision in a permit that's authorized, so if they selected
16 one and then used another one, they wouldn't be following
17 that provision. And we haven't built a ramp, I guess to
18 say, to select another provision. So there's not an avenue
19 to make a separate selection from that list.

20 Q. Okay. Thank you. Couple of questions for Jim.
21 Jim, I'm looking at () this is the provision regarding
22 estimation methods. My question to you is, is there such a
23 thing as a perfect estimation method?

24 MR. BOLANDER: Sounds like a loaded question, but
25 you know, I mean a calculation is based on, you know, either

1 mathematics, you know, mathematics formula, it's based on
2 empirical data in most cases. And, you know, is it as good
3 as a physical measurement, no, but can it be replicated and
4 used for data acquisition, yes.

5 **Q. Can an operator, in your opinion, can an operator**
6 **obtain all the data that OCD is requesting in this rule**
7 **reliably and with reasonable accuracy?**

8 MR. BOLANDER: Yes, with the caveat from my
9 testimony with Madam Chair regarding the data around
10 downhole operations where that information required some of
11 the estimation methods, their, I guess, accuracy methods or
12 accuracy bar is pretty high.

13 **Q. Does OCD's proposal, OCD's rule in Section 8.F(5)**
14 **allow the operator to select the estimation method?**

15 MR. BOLANDER: Yes.

16 **Q. Does it, does that provision allow the operator**
17 **to use any method as long as it's verifiable?**

18 MR. BOLANDER: Yes.

19 **Q. If an operator has to estimate and report**
20 **volumes, does it have an incentive to innovate and develop**
21 **better methods?**

22 MR. BOLANDER: Yes, from a sense of accurately
23 reporting, you know, when looking at what this rule is about
24 is minimizing and eliminating waste, and it's, you know,
25 technology allows for better results that didn't allow the

1 operator to affect the way it operates to actually capture
2 that from a salable perspective, then, you know, he has the
3 benefit to do so.

4 **Q. Thank you. Thank you both.**

5 MR. AMES: Nothing further. Madam Hearing
6 Officer, I would ask that these witnesses be excused.

7 HEARING EXAMINER ORTH: All right. Is there any
8 reason not to excuse the Division's rebuttal panel?

9 (No audible response.)

10 HEARING EXAMINER ORTH: No? All right, thank you
11 gentlemen. You are excused. At this time I would like to
12 turn to a discussion of rebuttal by others and hope we have
13 all, all counsel handy.

14 I think we have two challenges when it comes to
15 proposing rebuttal, one is the challenge of identifying what
16 is new in the Division's rebuttal that you want to address.
17 And the other is identifying, describing the new evidence
18 that you would want to present so we can address that new
19 information or adjustment to the rules.

20 Otherwise, it would be a matter of saying, well,
21 they didn't address the rules in the way we proposed they
22 address it, and we want to emphasize the evidence that we
23 put on three days ago, that's not appropriate rebuttal.

24 Let me assure you that although we will have this
25 discussion next, we will have an opportunity to, a brief

1 opportunity, but an opportunity to put your closing thoughts
2 into writing.

3 So let me hear if folks need a short break to
4 confer among themselves, we can, we can take it. Otherwise,
5 let me hear from you in order. Mr. Feldewert and Mr.
6 Rankin?

7 MR. FELDEWERT: Madam Hearing Officer, in light
8 of the testimony today from Mr. Bolander related to, for the
9 first time, two exhibits in which he characterized these,
10 these studies, that are referenced in here, in our opinion,
11 this case () we have a witness who is very familiar with
12 those studies, David Greaves, and we would like an
13 opportunity to present Mr. Greaves for a very short period
14 of time to discuss the issue of whether those studies that
15 Mr. Bolander referenced can actually be utilized in the
16 manner in which he suggested.

17 HEARING EXAMINER ORTH: Is that something you
18 would be prepared to do tonight? Or can you estimate the
19 amount of time you believe that testimony would take?

20 MR. FELDEWERT: I know when I checked about an
21 hour ago, we were in a position where we could present that
22 testimony as the time needed, which included tonight. I
23 would need to double check, but that's still a possibility,
24 I would believe.

25 MS. FOX: Madam Hearing Officer?

1 HEARING EXAMINER ORTH: Ms. Fox.

2 MS. FOX: On that point, I'm a little confused
3 because rebuttal is intended to rebut the direct case, it's
4 provided for in the rules if appropriate rebuttal. There is
5 no provision to rebut rebuttal, which is what Mr. Feldewert
6 is proposing.

7 And so I guess I object to rebutting rebuttal,
8 and that said, Climate Advocates has five minutes of true
9 rebuttal to the direct case, cases that we heard that is
10 indisputably new evidence. It will not be repetitious, and
11 I have already provided the two exhibits that we would like
12 to introduce to counsel.

13 HEARING EXAMINER ORTH: Okay. Thank you, Ms.
14 Fox. It has been my understanding that the parties other
15 than the Division were including rebuttal to the direct case
16 as they went along. I know I encouraged, but maybe I
17 misunderstood.

18 MS. FOX: We said we would try, but we didn't
19 promise that we would do that. We do have five minutes'
20 worth of rebuttal. We never made that guarantee.

21 HEARING EXAMINER ORTH: All right. Thank you.
22 Mr. Biernoff?

23 (No audible response.)

24 HEARING EXAMINER ORTH: We may have lost Mr.
25 Biernoff. Mr. Biernoff?

1 (No audible response.)

2 HEARING EXAMINER ORTH: No? Ms. Paranhos?

3 MS. PARANHOS: EDF already presented its rebuttal
4 testimony. We have no further testimony.

5 HEARING EXAMINER ORTH: Thank you very much for
6 that. So, Madam Chair, it sounds as though we need --

7 CHAIRWOMAN SANDOVAL: I have a question.

8 HEARING EXAMINER ORTH: Yes, ma'am.

9 CHAIRWOMAN SANDOVAL: Mr. Feldewert, are you
10 wanting to put on rebuttal for OCD Exhibit 40, the
11 information that Mr. Bolander characterized in Exhibit 40?
12 Is that what you are talking about?

13 MR. FELDEWERT: The information that he discussed
14 for the first time today, I think there was two exhibits, as
15 I recall, that he referenced.

16 CHAIRWOMAN SANDOVAL: But they were already
17 exhibits; correct?

18 MR. FELDEWERT: They were exhibits that were not
19 utilized or addressed by the Division in any fashion, either
20 in their prehearing filings or in their direct case. The
21 first, it was utilized for the first time, as you know, this
22 afternoon in an effort to suggest there is a reliable way to
23 estimate the volumes coming from three -- well, from manual
24 liquids unloading and uncontrolled tanks. That's the first
25 time I heard that.

1 CHAIRWOMAN SANDOVAL: Was it already exhibited --
2 was it already put into evidence, or was was there a motion
3 to --

4 MR. FELDEWERT: Was what put into evidence?

5 CHAIRWOMAN SANDOVAL: -- put into evidence
6 already?

7 MR. AMES: Madam Hearing Officer, all of OCD's
8 exhibits filed on December 17 were admitted into the record.

9 HEARING EXAMINER ORTH: All right. So, Madam
10 Chair, I believe Mr. Feldewert's point is not that it's a
11 new exhibit, but that they heard new testimony on the basis
12 of that exhibit.

13 CHAIRWOMAN SANDOVAL: Okay.

14 HEARING EXAMINER ORTH: It sounds as though what
15 Mr. Feldewert is describing would be ten minutes or less and
16 what Ms. Fox is describing would be ten minutes or less.

17 CHAIRWOMAN SANDOVAL: Okay.

18 HEARING EXAMINER ORTH: My proposal would be that
19 we do that tonight, and that would allow us truly to have a
20 post-hearing process that I could think would not be --

21 CHAIRWOMAN SANDOVAL: Okay. Thank you.

22 COMMISSIONER ENGLER: Just -- I'm sorry I'm
23 interrupting. Six o'clock I'm out of here, so ten minutes
24 and ten minutes is 20, counsel, please stick to that.

25 CHAIRWOMAN SANDOVAL: Do we need to talk about

1 the process afterwards, though?

2 HEARING EXAMINER ORTH: Well, sure, but I can
3 write an email to Mr. Engler about that.

4 MR. FELDEWERT: Madam Hearing Officer, I just
5 checked, we are ready to go with David Greaves, the witness.

6 HEARING EXAMINER ORTH: Sure. Thank you. If you
7 would bring him up on the screen and remind him that he is
8 still under oath.

9 MR. FELDEWERT: I think he is on, and I'm hoping
10 he is admitted as a panelist, as well as Adam Rankin who
11 will be presenting the testimony.

12 HEARING EXAMINER ORTH: All right. Thank you.

13 CHAIRWOMAN SANDOVAL: Dylan, did you hear that we
14 need to make David Greaves a panelist, please?

15 MR. COSS: Yes, Madam Commissioner, I'm on it.

16 CHAIRWOMAN SANDOVAL: Thank you.

17 MR. COSS: And David Greaves is now a panelist.
18 Who should I pass the presenter powers to, or is that
19 necessary?

20 HEARING EXAMINER ORTH: Either Mr. Rankin or
21 Mr. Greaves, so let Mr. Rankin call it.

22 MR. RANKIN: Thank you very much, Mr. Rose, to me
23 please. Thank you.

24 Madam Hearing Officer, may I proceed?

25 HEARING EXAMINER ORTH: Yes, please. Thank you.

1 MR. RANKIN: I just want to make sure we have
2 Mr. Greaves on. Do you see him? I haven't seen him or
3 heard him yet.

4 MR. GREAVES: I'm here.

5 MR. RANKIN: Thank you very much.

6 DAVID GREAVES

7 (Previously sworn, testified as follows:)

8 DIRECT REBUTTAL EXAMINATION

9 BY MR. RANKIN:

10 Q. Mr. Greaves, you were present for the testimony
11 today for Mr. Bolander regarding Line Item Number 79 on
12 NMOGA -- I'm sorry -- on NMOCDs rebuttal Exhibit 4C?

13 A. Yes.

14 Q. And in particular, you heard Mr. Bolander's
15 testimony regarding NMOGA's proposal to delete certain
16 categories from the rule under provision 8.G(2)(f)?

17 A. Yes, heard that.

18 Q. And in particular, his testimony regarding the,
19 the emission estimation methodologies relating to
20 uncontrolled tanks?

21 A. Yes.

22 Q. And you also heard the questions presented to him
23 on cross-examination and from the Commission on this topic?

24 A. Yes, I heard those.

25 Q. Great. I just want to make sure we have you

1 oriented and know your background. Now I'm going to put up
2 on my screen here what I had discussed with Mr. Bolander
3 previously and that he had previously referenced in his
4 direct testimony or his rebuttal testimony on OCD Exhibit
5 45. Let me know when you can see it.

6 A. Yes, I can see that.

7 Q. Mr. Greaves, you heard Mr. Bolander's testimony
8 regarding the capabilities of these various software
9 programs and the estimation methodology. Would you please
10 give us your response and particular concerns regarding the
11 capabilities of these software programs for the purposes
12 that he testified about?

13 A. Yeah. So I think it's really important to read
14 the sentence highlighted in yellow there, partners can
15 calculate flashing, working and standing emissions from
16 liquid transfer to storage tanks with the equation of state
17 programs.

18 So I wanted to clarify that equation of state
19 programs are not necessarily programs that can be used to
20 calculate working and standing losses. So for instance, I'm
21 very similar with HYSYS and have used Aspen for many years
22 both in college and then in my previous job and current job.

23 And HYSYS is, is a thermodynamic software
24 package. What that means is that it uses the composition of
25 the fluid stream that you have, combined with, combined with

1 your operating conditions and the history of the separation
2 vessels that you go through, and based upon that -- sorry,
3 the vacuum is running outside my office. Hopefully you can
4 hear me -- based upon that information it does equilibrium
5 calculations, thermodynamic equilibrium calculations.

6 So it's based upon, assuming equilibrium, which
7 oftentimes we are not at equilibrium, as I said in my
8 testimony, but it's also not based upon on all the operating
9 history of your tanks. Which, when you are doing working
10 and standing emission, those are operational considerations.
11 Thermal expansion in the tanks and accounting for the
12 emissivity of the tanks and the radiation is part of a
13 thermal calculation. That's not part of a thermodynamics
14 equation of state calculations.

15 Equations of state are also very complicated.
16 They have lots of inputs related to the composition that you
17 have, and it's very easy to get a very different answer with
18 your equation of state because equations of state rely on
19 all the factors about how the different molecules interact
20 with each other called binary interaction parameters and how
21 you build your fluid model.

22 So to think that everyone will be able to use
23 HYSYS is incorrect. It's very difficult to use and requires
24 a significant amount of training and good quality data.

25 And also, HYSYS was not built to use for working

1 and standing emissions. It's not a tool that can calculate
2 that. It will calculate the flash as accurately as the
3 moment that you put in the data, it's as accurate as -- as
4 good as you make the model, and as good as you know the
5 pressure and temperature for that precise moment, but not
6 for the whole range of operating conditions you're going to
7 experience over a reporting period for production
8 accounting.

9 **Q. So what's the problem with that distinction, that**
10 **it's able to do one thing, but not the other based upon the**
11 **operation emissions for purposes of monthly production**
12 **accounting?**

13 A. For one thing it makes me a little nervous about
14 reporting this document as proof that you can go accurately
15 estimate these, these calculations. When I have a sentence
16 like that, that simply is not true. HYSYS does not have
17 those capabilities. So that makes me nervous about this
18 gas -- similarly a flash calculation, and that's well known.
19 You can go to TCQ website and read about that if you like
20 and see it's for flash, it's not working and standing. So
21 right away it makes me nervous about trusting a document
22 like that that doesn't understand it.

23 But it's important to note there is a lot of
24 discussion today around these programs are good enough,
25 right, the calculation methodologies are good enough, and

1 you use them for design and permitting. And it's really
2 important to understand that what's used for design and
3 permitting is very different than what happens necessarily
4 in reality.

5 In design, you want to design for the worst case.
6 Same with permitting, you want to design for peak. So when
7 you go into the design effort, API 2000, which is the common
8 document used to design for a pressure vacuum release valve,
9 that document gets you at the peak condition you could
10 experience of working in thermal losses.

11 It does that so you don't over -- or so you don't
12 undersize your relief valve in your piping. So while it
13 does work for design, design is not what happens in reality
14 intentionally.

15 As an engineer, you put design factors on things
16 so that you have safety margins. It doesn't mean that the
17 calculations are bad for the design, it just means that they
18 keep you safe and help you properly size your equipment.

19 **Q. Okay. So would these models then potentially,**
20 **depending on the inputs, result in a wide range of outputs?**

21 **A.** Yes, as I said before, the range is significant.
22 I was looking at it today to better understand phase
23 envelopes, and based upon how you build your model in HYSYS,
24 if you use what are called -- if you use the actual
25 components versus if you use something called fractions, you

1 get very different phase envelopes, and those different
2 phases envelopes give you very different flash estimations.
3 So while they can give you a number, it's a number.

4 So we can, you can go and report a number, but
5 the real challenge here is not the ability to report a
6 number, it's not the challenge, of, well, you have given us
7 the flexibility of using any estimation method you want,
8 it's that whatever estimation method you want will create a
9 number that is then used against the gas capture
10 calculation. So it's the impact of that number.

11 So, yes, you can create a number, but is that an
12 appropriate number, and is that a number that you are
13 willing to live with against your gas capture calculation
14 versus reporting a number that's () estimation.

15 **Q. So to your point, it's a number, and that number**
16 **may be capable of verification by an independent third party**
17 **because you know the methodology and inputs so it can be**
18 **verified; correct?**

19 A. Yes, you can definitely verify the number and
20 approach taken, and many people can take many different
21 approaches.

22 **Q. But is that number necessarily an accurate**
23 **representation of the actual volumes associated with an**
24 **uncontrolled tank?**

25 A. No, and I think that's one of the most important

1 things as you read the EPA literature, AP42 document.
2 Probably as you read this document -- I think I saw it in
3 there but I haven't reread -- it's that a lot of these
4 approaches are good for an average, particularly good for an
5 annual average. So that's why they work for EPA
6 calculations, but they will specifically say they are not
7 accurate for an individual moment.

8 And so when we look at production accounting, we
9 are looking at an individual operator, an individual moment,
10 an individual finite time in space, and in those short
11 periods there is language in there about a short period is
12 not appropriate for a short range period.

13 **Q. Such as monthly reporting?**

14 A. Yes, exactly. Because they use, if you look at
15 AP42, AP42, it uses this average approach for temperature,
16 which is not accurate for any sort of given month or any
17 sort of given day where you might have wide temperature
18 swings which will really impact your thermal affects within
19 that tank.

20 **Q. Now NMOGA is -- does NMOGA question the use of**
21 **those methodologies, these software packages for purposes of**
22 **estimating emissions for air permitting?**

23 A. No.

24 **Q. For designing these facilities?**

25 A. No. No.

1 Q. It's just a concern about the monthly production
2 accounting purposes; correct?

3 A. That's correct.

4 MR. RANKIN: Madam Hearing Officer, I have no
5 further questions --

6 Q. Oh, I will just ask, Mr. Greaves, in terms of
7 your response, is there anything else that you want to say
8 on this topic that I didn't ask you about?

9 A. Yeah, I wanted to clarify for Madam Chair an
10 answer about nitrogen blankets. She asked about nitrogen
11 blankets. Nitrogen blanket is very different than a
12 produced gas blanket, so I can't speak for all operators,
13 but I have more commonly seen produced gas blankets in the
14 Delaware.

15 The nitrogen blanket, nitrogen blankets require
16 some sort of nitrogen generation unit, but also nitrogen
17 blankets don't affect emissions, per se, the emissions
18 calculation because they are, they are not a greenhouse gas
19 in the calculation, but also because nitrogen is an inert.
20 It doesn't impact the flash that's happening because of the
21 sense of the thermodynamics. It would be a separate
22 component that really doesn't change the flash, it's when
23 you use produced gas that you see those changes.

24 The other thing to remember with nitrogen is that
25 nitrogen has contractual limits as well. So there is very

1 common numbers, you might hear 2 percent nitrogen for your
2 gas sales. If you put a nitrogen blanket on there, it may
3 push you outside of that.

4 The other thing with nitrogen, while it won't
5 change the emissions, it does change the () so on a
6 volumetric basis you could see a higher rate. You put on a
7 nitrogen blanket and it expels out temperature, it will
8 change your volumetric rate which is what we are talking
9 about, not the flash calculation which is what I believe you
10 were talking about.

11 MR. RANKIN: Thank you very much, Mr. Greaves.
12 Madam Hearing Officer, I have no further questions for
13 Mr. Greaves and pass him for questioning.

14 HEARING EXAMINER ORTH: Thank you. Commissioner
15 Engler, let me ask you first in the event we lose you first,
16 do you have questions of Mr. Greaves?

17 COMMISSIONER ENGLER: No. Anyone who wants to
18 have five more kids, I'm not going to ask any more
19 questions.

20 HEARING EXAMINER ORTH: All right. Thank you
21 very much.

22 MR. GREAVES: My wife wanted me to come home, but
23 I told her I was running late today.

24 HEARING EXAMINER ORTH: Mr. Ames, do you have
25 questions of Mr. Greaves?

1 MR. AMES: No questions.

2 HEARING EXAMINER ORTH: Thank you. Mr. Biernoff,
3 if you've returned. Do you have questions of Mr. Greaves?

4 (No audible response.)

5 HEARING EXAMINER ORTH: Ms. Fox?

6 MS. FOX: Thank you, Madam Hearing Officer. We
7 have two exhibits from OCD's website that we would like to
8 get admitted into evidence. And I must say that I did offer
9 counsel that we could just submit these into evidence
10 without a witness.

11 HEARING EXAMINER ORTH: Ms. Fox, I'm sorry,
12 you've jumped ahead. I was just asking if you had questions
13 of Mr. Greaves.

14 MS. FOX: No. No.

15 HEARING EXAMINER ORTH: All right. Great.

16 MS. FOX: Sorry.

17 MS. PARANHOS: Thank you, Madam Hearing Officer,
18 I have no questions.

19 HEARING EXAMINER ORTH: Thank you. I'm not sure
20 if Commissioner Kessler is still with us. Maybe not. Madam
21 Chair?

22 CHAIRWOMAN SANDOVAL: I have no questions. Thank
23 you.

24 HEARING EXAMINER ORTH: Terrific. Mr. Greaves,
25 you're actually excused again.

1 THE WITNESS: Thank you.

2 HEARING EXAMINER ORTH: Thank you. Ms. Fox, now
3 you're up.

4 MS. FOX: That was an embarrassing moment. All
5 right. Let's see, Mr. Rose-Coss, could you switch Tom
6 Singer over from the public view to the panelist view?

7 We have two documents from OCD's website that we
8 would like admitted into evidence. And I do have to say
9 that we tried to do that without a witness to save time, but
10 Mr. Ames objected to these two documents that are coming in
11 from the OCD website, so we will put on a witness to
12 introduce them. Mr. Singer is on.

13 MR. AMES: May I interject? I did not object,
14 for the record.

15 MS. FOX: May we just put these two records in
16 without counsel even seeing them and without a witness? We
17 are willing to do that to save time.

18 MR. AMES: In that case, I will object because
19 they lack foundation. So go ahead.

20 MS. FOX: That's what I was asking.

21 Mr. Rose-Coss, may I have sharing ability,
22 please?

23 HEARING EXAMINER ORTH: And, Dr. Singer, you are
24 still under oath.

25 DR. SINGER: Thank you, Ms. Orth.

1 MS. FOX: Let me put these two documents --

2 DR. SINGER: Ms. Orth, may I address Dr. Engler
3 first?

4 HEARING EXAMINER ORTH: Who was speaking?

5 DR. SINGER: It's Tom Singer. I just wanted to
6 let Dr. Engler know that I'm introducing data, which I know
7 that he is a data guy and enjoys data, so if he can hang in
8 for a few moments, I just have very few things to say, but
9 I'd hate to have him run out the door.

10 COMMISSIONER ENGLER: You got time. I'm
11 listening. I'm here.

12 MS. FOX: So what I'm going to do, counsel has
13 these, so I'm going to move through -- these are the from
14 the OCD website. This is the title from the OCD website,
15 Stripper Gas Wells.

16 THE WITNESS: I will answer when I'm ready. Can
17 I do that?

18 MS. FOX: Hold on, Tom. Stripper Gas Well
19 Summary is proposed Exhibit 33, Stripper Oil Well Summary is
20 proposed Exhibit 34. Looks like this. Just to orient the
21 Commissioners because they don't have the benefit of these
22 exhibits right now, and neither does the hearing officer.

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TOM SINGER

(Previously sworn, testified as follows:)

DIRECT REBUTTAL EXAMINATION

MS. FOX:

Q. Okay. So Mr. -- Dr. Singer, what are these two documents?

A. These documents are summaries of the number of stripper wells operating, currently producing, operating, in New Mexico sorted by operator. Yeah, sorted by operator.

Q. And where are these documents found?

A. They are on the OCD website statistics page.

Q. And what do you know about how these, how these documents were developed?

A. The source documents are Excel spreadsheets that identify 14,768 stripper gas wells by operator, well number, operator, production, number of days producing. And then similarly the oil Excel file shows 15,074 oil wells, again with barrels of production and days of production.

So it's -- it's OCD -- apparently OCD's classification of wells as stripper wells, and which those, the number of those wells, and then they roll those up by operator.

So the data there is number of wells.

Q. And, as far as you know, is this -- were these two datasets developed by OCD staff?

1 A. Correct. As far as I know, yes.

2 Q. As far as you know, who developed this -- these
3 two sets of data?

4 A. I do not know.

5 Q. Dr. Singer, you have heard testimony that implies
6 that stripper wells are essentially operated by small
7 operators operating at the margin; correct?

8 A. I don't want to testify to that. I know that
9 the -- that -- that there has been discussion of exemptions
10 for stripper wells. And I'm also aware there is a common
11 assumption discussion of stripper wells being associated
12 with particular kinds of operators, but I don't recall
13 hearing specifically that all stripper wells are operated by
14 small operators in this, in this case.

15 Q. And what's the assumption that you just referred
16 to?

17 A. In this case, and in the media and generally in
18 conversations or publications or media coverage of stripper
19 wells, they are often associated with small operators or
20 mom-and-pop operators. And I think we have heard that in
21 testimony in this case in this hearing.

22 Q. Do these documents -- and what do these documents
23 say to that assumption?

24 A. Well, I have some prepared remarks. I think it
25 might be better if I followed my train of thought. Can I do

1 that?

2 **Q. Absolutely.**

3 A. Yes. I guess, again, there's been some testimony
4 in the hearing about differential treatment for stripper
5 wells for several provisions of the rule, I won't go into
6 them. And again OCD provides information on stripper wells
7 on the web state statistics page.

8 And I think this is going to be particularly
9 useful for commissioners as they deliberate these exceptions
10 for these kinds of wells, there are two tables, one for gas
11 well -- let's have the gas well up now -- and then one for
12 oil wells. And if you just start looking -- and you can
13 leave just the first page -- these distributions are so
14 dramatically skewed that you get kind of the message from
15 the first page of a multi page table that this information
16 addresses what I believe is widely-held assumption, that
17 stripper wells are primarily associated with small operators
18 or mom-and-pop operators.

19 And you can go to the next slide. Go down to the
20 oil. The oil stripper wells are not as dramatically skewed
21 distribution, but they are pretty -- you will see what a
22 long tail, these distributions have a very long tail.

23 And so clearly, yeah, the distributions are
24 skewed with long tails. So I can't today walk through these
25 tables and classify each operator by size or some other

1 financial capacity category. But of course some of these
2 names on these first pages are quite familiar and more
3 familiar than others.

4 And the data does indicate -- and here is the
5 punch line -- the data indicates how the benefits of any
6 stripper well exemption is going to be distributed among New
7 Mexico operators. Therefore, I thought it was important for
8 the Commissioners to have this data when they deliberate
9 these stripper exemptions. And that concludes my rebuttal
10 testimony.

11 **Q. Thank you.**

12 MS. FOX: Move admission of Climate Advocates
13 Exhibits 33 and 34.

14 HEARING EXAMINER ORTH: Let me pause a moment in
15 the event there are objections.

16 (No audible response.)

17 HEARING EXAMINER ORTH: Exhibits 33 and 34 are
18 admitted.

19 (Exhibits 33 and 34 admitted.)

20 MS. FOX: That's all we have, Madam Hearing
21 Officer.

22 HEARING EXAMINER ORTH: Thank you very much, Ms.
23 Fox. Commissioner Engler, do have you questions of
24 Dr. Singer?

25 COMMISSIONER ENGLER: I will do some

1 clarifications for you. First off, stripper well is the
2 definition of a type of well. I don't believe it was
3 necessarily defined as large versus small operator or mom or
4 pop.

5 I would submit to you that if you look at your
6 numbers, you will have, as you saw, a substantial number of
7 stripper wells. You will also have a substantial number of
8 non-stripper wells. But if you take a mom-and-pop company
9 like Dugan, which was on your list, you will notice they
10 have 700 gas stripper wells and they probably own and
11 operate 800.

12 So there is a difference in the percentage of a
13 mom and pop and what they get versus some of the more higher
14 well numbers.

15 So I appreciate () there is a lot more
16 information there that could be done, but, you know, please
17 keep in mind that stripper well is a definition of a
18 particular well. And so there's -- that's all I'm going to
19 say.

20 DR. SINGER: May I respond to that?

21 HEARING EXAMINER ORTH: If you would, please,
22 Dr. Singer.

23 DR. SINGER: I agree with you, and I think that
24 any -- it just goes to the notion that any exemption really
25 ought to be as fine-tuned as possible to address the issue

1 the Commission is concerned with, and that there is some
2 data, there is a start in the data in the table to craft
3 exemptions that solves the problem and doesn't create other
4 problems.

5 So thank you for that clarification, Dr. Engler,
6 I appreciate that.

7 COMMISSIONER ENGLER: We will do what we can to
8 make sure we will craft ().

9 HEARING EXAMINER ORTH: Thank you, Commissioner
10 Engler. Let me see, Mr. Ames, do you have questions of
11 Dr. Singer?

12 MR. AMES: No, I don't. Thank you.

13 HEARING EXAMINER ORTH: All right. Let's see.
14 Mr. Biernoff may not be on. No. Ms. Fox -- Ms. Paranhos.

15 MS. PARANHOS: Thank you, Madam Hearing Officer.
16 No questions.

17 HEARING EXAMINER ORTH: And I managed to skip Mr.
18 Rankin. I'm sorry, Mr. Rankin, I see you are still with us.

19 MR. RANKIN: Oh, yeah. No questions for
20 Mr. Singer. Thank you, Dr. Singer.

21 HEARING EXAMINER ORTH: Let's see. I don't see
22 Commissioner Kessler. Madam Chair, do you have questions of
23 Dr. Singer?

24 CHAIRWOMAN SANDOVAL: I just have one question.
25 Dr. Singer, were you around for the rebuttal today?

1 DR. SINGER: Yes, I heard -- well, I was highly
2 distracted, but yes, writing drafts and scrambling, but yes,
3 I was on the hearing all day today.

4 CHAIRWOMAN SANDOVAL: Did you hear Mr. Powell and
5 Mr. Bolander say that the definition was tailored not only
6 to take into account things like potentially economics, but
7 also the potential of a well to cause gaps or gas releases?

8 DR. SINGER: I vaguely recall that testimony,
9 Madam Chair.

10 CHAIRWOMAN SANDOVAL: Okay. Thank you. That's
11 it.

12 HEARING EXAMINER ORTH: Thank you, Madam Chair.
13 Ms. Fox, any follow-up?

14 MS. FOX: No follow-up, no, Madam Hearing
15 Officer.

16 HEARING EXAMINER ORTH: All right. Thank you
17 very much. Dr. Singer, you are excused again. Thank you.

18 Is there anything else before we discuss the post
19 hearing process and call the completion of the evidentiary
20 record?

21 CHAIRWOMAN SANDOVAL: I guess I just want to ask,
22 Dr. Engler, before you step away, would the use of the
23 conclusion of what was -- I'll say it again, I'm sorry.

24 Ms. Orth, I just want to make sure that before we
25 close the record that Dr. Engler feels like he has the

1 information he needs to make, you know, any sort of type of
2 decision and that we don't need to recall any additional
3 witnesses to provide you with more information.

4 COMMISSIONER ENGLER: No, I don't need that.

5 CHAIRWOMAN SANDOVAL: Okay. Because once we
6 close the record, we can't reopen it.

7 COMMISSIONER ENGLER: Understood.

8 MR. MOANDER: Just a point, I believe the hearing
9 officer said the evidentiary record. Just for
10 clarification, I'm not clear if that means there could be
11 some pleadings which would be the record proper or the
12 complete record. I just want to make sure we are clear on
13 what did close versus what may not. I know it's
14 nit-picking, but we want to get that right.

15 HEARING EXAMINER ORTH: Thank you, Mr. Moander.
16 Yeah, I consider the evidentiary record to -- the first
17 thing we do in a hearing with the testimony and exhibits, so
18 that would come to a close here momentarily.

19 Post hearing submittals I consider pleadings and
20 the sort of thing that would be in the record proper, for
21 example, in the event of an appeal as part of the entire
22 rulemaking record.

23 So I'm not hearing any takers for wanting to put
24 on additional evidence, so I'm going to close the
25 evidentiary record right now, and let's talk about the post

1 hearing process.

2 I know this makes me a terrible negotiator, but
3 let me just offer up the most generous thing I can offer up
4 just to start the conversation, and then I'm happy to take
5 questions, just understand that this time would not be
6 expanded. We no longer need January 21 or 22 for any part
7 of the --

8 CHAIRWOMAN SANDOVAL: That's exciting.

9 HEARING EXAMINER ORTH: Yes, yes. You all
10 deserve a pat on the back.

11 My first question is to Mr. Ames. Mr. Ames,
12 because I believe the most helpful format for the
13 Commissioners in their deliberations would be for the other
14 parties to take the Division's final rule proposal and do
15 redline strike out, what have you, and then refer to the
16 testimony that would support each of those adjustments, it's
17 my belief that's how that would be most helpful to the
18 Commissioners. And I know you and I have been through it
19 together personally before the Water Quality Control
20 Commission, how soon could the Division prepare what would
21 essentially be a revised Exhibit 2A and 2B?

22 MR. AMES: Close of business Wednesday.

23 HEARING EXAMINER ORTH: Terrific. Thank you very
24 much. I believe that we will have the remainder of the --
25 transcript including the transcript from today by next --

1 thursday. It's my understanding from Irene earlier was that
2 the agreement was three working days. Is that true, Irene.

3 REPORTER: That was my understanding from Paul.

4 HEARING EXAMINER ORTH: My basic point is that
5 all of the parties will have everything they need for a post
6 hearing submittal by mid next week, certainly by late next
7 week. If you can take -- I'm sorry, was someone trying to
8 talk?

9 (No audible response.)

10 HEARING EXAMINER ORTH: If then you would take
11 the documents from Mr. -- from the Division and reflect from
12 the transcript. As far as I'm concerned, written closing
13 arguments are discretionary. If you feel like you need to
14 set something out, go ahead and do it, but what is most
15 helpful for the Commission is to make your proposed
16 revisions clear and then point to the record where those
17 proposed revisions would be supported.

18 And if we could have those by close of business
19 February 5, the rest of the process works out. That's two
20 full weeks and potentially even two days plus that. So are
21 there questions about any of that, because I really do want
22 everyone to understand what's being requested.

23 MR. AMES: Madam Hearing Officer, OCD is happy to
24 hear your proposal. Our pledge is to do what would help the
25 Commission, and you are speaking for the Commission and so

1 we would do that.

2 We would also propose a page limit to ensure that
3 we don't have voluminous documents in the record here on
4 this. More argument is probably better said succinctly. We
5 would propose 25 pages, excluding the certificate of
6 service, standard margin, double spaced, 12 point font, no
7 attachments.

8 HEARING EXAMINER ORTH: So again, Mr. --

9 MR. FELDEWERT: Eric, can you be more precise?

10 MR. AMES: I can try, but that's all I could
11 think of, Mike.

12 MS. FOX: But no font and it has to be double
13 spaced.

14 MR. AMES: We can debate that. No footnotes.
15 How is that?

16 HEARING EXAMINER ORTH: So going back, Eric, I
17 want you to assume that the Commission may deliberate on
18 February 11 and 12, just assume that for the purposes of
19 this conversation. And that those -- that the Commission
20 would not find especially helpful verbal closing arguments.

21 What is more helpful is written closing
22 arguments, if you really feel the need to make some, and
23 what is most helpful is taking Part 27, Part 28, and for
24 each of the modifications, referring to the part of --
25 referring to the evidence in the record, either the exhibit

1 or testimony, to support those proposed last pages.

2 So given that, I think one of the regulations is
3 11 pages long, one of the regulations was a little shorter,
4 what, what would your page limit apply to, Mr. Ames?

5 MR. AMES: The entire pleading, excluding the
6 certificate of service.

7 HEARING EXAMINER ORTH: Okay.

8 MR. AMES: The only exception I would propose is
9 that parties could attach a draft of the version of the rule
10 that they would like which would be the basis for their
11 pleading.

12 HEARING EXAMINER ORTH: So that's what I'm
13 talking about is the primary submittal from the other
14 parties. That's what I'm trying to describe. I'm sorry if
15 I wasn't clear. Ms. Fox, do you have something helpful?

16 MS. FOX: I think, Madam Hearing Officer, I agree
17 with you, that I'm fine with a 25 page limit, as long as
18 that is exclusive of our proposed modifications to the rule.

19 MR. AMES: Yes, I revise my proposal along those
20 lines, yes.

21 HEARING EXAMINER ORTH: All right. Mr.
22 Feldewert?

23 MR. FELDEWERT: Madam Hearing Officer, when you
24 say the party's proposed modifications, you are talking
25 about the proposed modifications that have been filed, not

1 new modifications by parties other than the Division.

2 HEARING EXAMINER ORTH: No. What I mean is that
3 you would take the Division's, its final proposal which
4 Mr. Ames has now promised for close of business on January
5 20, let's say that the Division adopted something of what
6 NMOGA proposed to modify. I'm assuming you wouldn't have
7 any comment; right? If the Division is proposing to modify
8 along the lines to align itself with your own proposal,
9 there is no particular reason to comment on that.

10 But let's say that there are items that the
11 Division didn't propose to align themselves with NMOGA's
12 proposal, at that point you would show the format of the
13 change you were going to make, and immediately under that
14 section, point to the evidence in the record that supports
15 your proposed adjustment.

16 MR. FELDEWERT: That's -- I understand. My only
17 concern is that, granted this is a bit all prior rulemaking,
18 okay, the parties submit their proposed modifications in
19 advance of the hearing. Okay? The only party thereafter
20 that is entitled to provide additional modifications is the
21 applicant.

22 That's how it's always been done. Now, and the
23 reason is, I think, I'd be somewhat leery about parties
24 introducing new modifications that no one has had an
25 opportunity to address.

1 HEARING EXAMINER ORTH: Okay. So I sure wasn't
2 trying to convey that you could offer new modifications that
3 you hadn't already --

4 MR. FELDEWERT: Okay. That was my --

5 HEARING EXAMINER ORTH: Ms. Fox.

6 MS. FOX: I have a question. So what I heard you
7 say, Madam Hearing Officer, is that in the -- in our set of
8 proposed rules that we submit, that you would like the
9 justification for each of our proposed rule under the rule
10 in the same way that NMOGA filed their prehearing statement.
11 Is that what you are suggesting?

12 HEARING EXAMINER ORTH: So it -- I'm sorry.

13 MS. FOX: Our justification should be integrated
14 within our proposed modifications to the rules, within that
15 rule document like NMOGA did -- which I found very helpful,
16 by the way.

17 HEARING EXAMINER ORTH: Yes. So we -- we were
18 doing that with the Triennial Review in front of the (), and
19 those Commissioners, and there are 14 of them, as you know,
20 they found that the most useful, when they had half a dozen
21 different proposals in front of them, to be able to step
22 through section by section and see section by section what
23 the different proposals were, and where in the record the
24 support for each of those proposals could be found.

25 And you may remember, I imagine Mr. Ames

1 remembers, it used to be I would take a month or two to
2 compile everyone's proposals and go through section by
3 section whereby I sifted parts of what all the parties were
4 doing, but we don't have that kind of time. So, Ms. Fox.

5 MS. FOX: Then I agree that that's a really
6 helpful format, and -- but looking for -- I don't see how
7 that fits within the 25 page limit because, are you saying
8 all our justifications should be in this format and that any
9 additional legal argument we want to make would be an
10 additional pleading, since just looking at NMOGA's proposal
11 and the format you are suggesting, their Part 27 is 27
12 pages, and their Part 28 is 17 pages.

13 So we are over the 25 page limit, you know, at
14 least if they are going to propose -- in any event, it's
15 going to be more than 25 pages. But what you are suggesting
16 is that we do the modifications, we do the justifications
17 and then we can submit separately written closing argument
18 in our discretion.

19 HEARING EXAMINER ORTH: That's what I'm pitching
20 to you. And I see Ms. Paranhos.

21 MS. PARANHOS: Thank you, Madam Hearing Officer.
22 I will admit I'm now confused because initially it seemed
23 like what you were asking for was a document that contained
24 our explanation based on testimony in the record for any
25 revisions that we are still asking for, so the revisions we

1 have already requested in this rulemaking, but have not yet
2 been accepted by the Division.

3 And so based on the testimony in the record, we
4 would say, "We are still asking for this revision. Here is
5 the testimony in the record that supports it."

6 HEARING EXAMINER ORTH: Yes.

7 MS. PARANHOS: It sounds like now potentially
8 what Tannis is asking is, in our one exhibit that we're
9 allowed, which would be a copy of OCD's most recent version
10 of the proposed rule with our suggested revisions that we
11 are referring to in our final closing brief, that in that
12 redline document we would include not just the language
13 change, so the strikeout or additional language, but also
14 the justification for that strikeout, which is also included
15 in the brief. And so is that what you are asking for, do
16 you want the justification for the strikeout in both
17 documents or just in the brief?

18 HEARING EXAMINER ORTH: So I believe that it's
19 most helpful if the justification appears, or if you point
20 to the evidence in the strikeout underlying rule document,
21 and really the closing argument is more about, for example,
22 what's legal or what the scope of authority of the Division
23 might be, it's more for legal argument, not to point to
24 exactly where in the record a particular adjustment of the
25 rule would be made.

1 MS. PARANHOS: Thank you. That's clear, and I
2 understand what you are asking for now.

3 HEARING EXAMINER ORTH: All right. Ms. Fox.

4 MS. FOX: So the proposed page limit wouldn't
5 apply to the rule modification document with justifications,
6 but certainly would apply to the closing argument document?
7 Is that right?

8 HEARING EXAMINER ORTH: Yes. And I really hope
9 you guys don't need 25 pages to make any kind of closing
10 argument. You know, page, as far as I'm concerned, the
11 proposed adjustment to rule where you are pointing to the
12 evidence shouldn't have a page limit.

13 COMMISSIONER ENGLER: I agree with you, and if it
14 helps you guys, I won't read anything past ten pages.

15 HEARING EXAMINER ORTH: Thank you, Commissioner
16 Engler. Are there any other questions about any of this? I
17 can certainly put it in an order, if that would be helpful.

18 CHAIRWOMAN SANDOVAL: Can I just confirm? So it
19 sounds like the Division will hopefully have their redline
20 this Wednesday, there would hopefully be most of the
21 transcript by this Wednesday, then the parties going to do
22 their thing, due end of the day of the 5th -- the 5th. And
23 then we would deliberate at the normally-scheduled OCC
24 hearing the 11th and 12th and we will need to continue the
25 cases from the 11th to probably a later date, maybe like the

1 25th.

2 Okay. Chris -- or Mr. Moander, are you on line?

3 MR. MOANDER: Yes, I am. I'm taking notes, so we
4 will be talking about this in the coming week about getting
5 tidied up and we will take care of it.

6 CHAIRWOMAN SANDOVAL: I just want to make sure
7 you are hearing it all.

8 MR. MOANDER: I am absolutely glued to the
9 action.

10 CHAIRWOMAN SANDOVAL: Okay, great.

11 MR. AMES: All right.

12 HEARING EXAMINER ORTH: All right. Anything
13 else?

14 MR. AMES: Yes. I'm sorry, Madam Hearing
15 Officer, but I am now thoroughly confused what is going on.
16 It appears now it's up to two documents, and I'm not sure
17 there are any page limits and I'm not clear at all what is
18 expected from the Division other than the proposed rule.
19 Are you expecting us to do a justification for every
20 paragraph, subparagraph in the rule, or just for those
21 proposals of other parties that we still have not accepted?

22 I'm little unclear as to what obligation the
23 Division has besides producing the document by close of
24 business Wednesday.

25 HEARING EXAMINER ORTH: I believe you have

1 already produced two documents, namely the two exhibits you
2 entered in today that provide an excellent explanation of
3 why you have accepted the changes the Division hasn't
4 accepted. I don't think we need that again from you. In
5 the event you would like to offer written closing argument,
6 you are welcome to do that. Otherwise, what we need from
7 you soonest is the final, the proposed rules in their final
8 proposed format by next WEDnesday and, again, closing
9 argument is discretionary.

10 MR. AMES: And what are the parameters for
11 closing argument.

12 HEARING EXAMINER ORTH: You can put anything you
13 like in closing argument.

14 COMMISSIONER ENGLER: 100 words or less.

15 MR. FELDEWERT: Ten pages.

16 MR. AMES: I can doe a haiku if you like.

17 CHAIRWOMAN SANDOVAL: That would be great. I
18 mean, creativity definitely.

19 MR. AMES: Anyway, so what -- I understand Dr.
20 Engler's parameters. What are the Hearing Officer's?

21 HEARING EXAMINER ORTH: So I guess, I'm not
22 concerned that anyone is going to abuse the written closing
23 argument among you all. You're all great lawyers. I'm not
24 concerned about abuse there. I can write down a 25 page
25 limit or a 10 page limit, but since it's coming in in

1 writing I'm not worried.

2 MR. FELDEWERT: I have written down ten pages.

3 MS. FOX: I heard Dr. Engler loud and clear.

4 COMMISSIONER ENGLER: Mr. Feldewert, I might have
5 to reduce that.

6 HEARING EXAMINER ORTH: Is there anything else we
7 can talk about before we adjourn?

8 MR. AMES: I'm sure we can find something, but I
9 don't think we want to.

10 HEARING EXAMINER: Well, thank you all very,
11 very much. Have a great weekend.

12 (Adjourned.)

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1 STATE OF NEW MEXICO
2 COUNTY OF BERNALILLO

3

4 REPORTER'S CERTIFICATE

5

6 I, IRENE DELGADO, New Mexico Certified Court
7 Reporter, CCR 253, do hereby certify that I reported the
8 foregoing virtual proceedings in stenographic shorthand and
9 that the foregoing pages are a true and correct transcript
10 of those proceedings to the best of my ability.

11 I FURTHER CERTIFY that I am neither employed by
12 nor related to any of the parties or attorneys in this case
13 and that I have no interest in the final disposition of this
14 case.

15 I FURTHER CERTIFY that the Virtual Proceeding was
16 of poor to good quality.

17 Dated this 15 day of January 2021.

18 /s/ Irene Delgado

19

20 Irene Delgado, NMCCR 253
License Expires: 12-31-21

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