

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 NO 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 - DAY 4
JANUARY 7, 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 7, 2021, via Webex Virtual Platform, hosted by New Mexico Energy, Minerals, and Natural Resources Department.

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1 HEARING EXAMINER ORTH: So good morning. My name
2 is Felicia Orth. I'm the hearing officer appointed by the
3 Oil Conservation Commission to conduct a hearing in the
4 matter of the application of the New Mexico Oil Conservation
5 Division to consider proposed rules to regulate the venting
6 and flaring of natural gas from oil and natural gas
7 production and gathering facilities, Case 21528.

8 We are beginning this morning with one of our
9 many opportunities for public comment. I will ask you to
10 keep your public comment to just a few minutes, and in the
11 event you have more to say you would like the Commission to
12 consider as part of their rulemaking, please put it in
13 writing and address it to Florene Davidson.

14 You will find all of Ms. Davidson's contact
15 information on the web page of the Energy Minerals & Natural
16 Resource Department, Oil Conservation Division web page.
17 Look specifically for the tab on outreach and public
18 engagement.

19 This morning we have two people who signed up to
20 offer comment that have not already offered comment. I will
21 call you in this order, Carol Davis and Gil M. Sord. Ms.
22 Davis, are you with us?

23 MS. DAVIS: (Unclear.)

24 MS. ORTH: Oh, hello.

25 MS. DAVIS: Hi. Yes, I'm here.

1 HEARING EXAMINER ORTH: If you would please go
2 ahead.

3 MS. DAVIS: Good morning. My name is Carol
4 Davis. I'm with Domestic Syndicates (unclear) Environment,
5 and I'm a member of the council health committee. I have
6 worked for six years with Navajo Community members across
7 northwest New Mexico on issues related to emissions from oil
8 and gas development.

9 During my time spent in the Eastern Navajo Agency
10 working with communities affected by oil and gas
11 development, I could smell a strong rotten-egg-like odor,
12 and after an hour I would feel nauseous and develop a
13 headache. At a three day event hosted by our organization
14 in January of 2018, many of us opted to camp near the
15 Councilor Chapter House, which is off 550.

16 On the first night I woke with an extreme sense
17 of anxiety and claustrophobia. I rushed out of the tent
18 because I had to gasp for air. I have never experienced
19 anxiety like that before. My symptoms, nausea, headache,
20 sore, dry throat and anxiety ended after I returned home
21 some 230 miles away.

22 There are many families and children and small
23 children who live within a couple hundred yards of well
24 sites within this region. We are subjected to the harmful
25 gases daily. Many of these wells are decades old and have

1 found to have consistently low levels of harmful gas.

2 Methane is a powerful greenhouse gas that is
3 responsible for about 25 percent of the climate change we
4 are experiencing today. Oil and gas companies release more
5 than 1.1 million tons of methane which have the same climate
6 impact to us -- impact as about 25 coal-fired power plants.

7 To help restore the health of indigenous
8 communities in Northwest New Mexico the Oil Conservation
9 Commission must strengthen the Oil Conservation Division
10 proposed methane waste rule to eliminate unnecessary waste
11 and pollution by including the following recommendations:

12 One, ban routine venting and flaring unless
13 necessary; two, require oil and gas companies to capture 98
14 percent of methane emissions by 2026; three, strengthen
15 state supporting the public notice requirements mandating
16 that operators immediately notify residents and communities
17 at risk when methane releases threaten public health, safety
18 or the environment occur; four, deny permits to drill new
19 wells if operators are out of compliance with gas capture
20 requirements.

21 The adoption of a strong venting and flaring rule
22 is a critical first step in addressing emissions which
23 disproportionately affect the Navajo communities who more
24 likely to live within half mile of oil and gas well sites
25 and disproportionately bear the burden of poor policies.

1 Finally, it's critical that the New Mexico
2 Environment Department adopt a rule that holds polluters
3 accountable and cuts emissions across the oil and gas
4 industry. Thank you.

5 HEARING EXAMINER ORTH: Thank you, Ms. Davis. I
6 was remiss in not introducing the Commissioners with us this
7 morning. We have Madam Chair, Ms. Adrienne Sandoval, and we
8 also have Jordan Kessler.

9 The second person signed up to offer comment this
10 morning who did not speak yesterday is Gil M. Sord. Are you
11 with us, Gil M. Sord?

12 (No audible response.)

13 HEARING EXAMINER ORTH: No? Let me make just one
14 call in the event you have joined us this morning, you were
15 signed up to offer public comment, you haven't offered it
16 yet and you would like to offer it now, in the event we have
17 someone who rejoined us.

18 (No audible response.)

19 HEARING EXAMINER ORTH: No? Okay. In that case,
20 I believe I asked the parties to get on by 8:45 so that we
21 can begin our technical case. I see a number of folks
22 already on, but let's just take a five-minute break, unless,
23 Madam Chair, you have something you would like to discuss
24 before then.

25 CHAIRWOMAN SANDOVAL: No. A five-minute break is

1 fine. Thanks.

2 HEARING EXAMINER ORTH: Thank you.

3 (Recess taken.)

4 HEARING EXAMINER ORTH: Good morning. We are
5 back after a very short break following public comment this
6 morning. We are on day four of the hearing in Case 21528.

7 My name is Felicia Orth, the Hearing Officer
8 appointed by the Commission to conduct this hearing, the
9 rulemaking. We have two Commissioners with us this morning,
10 Madam Chair, Adrienne Sandoval there, and Commissioner
11 Jordan Kessler.

12 The hearing is being electronically recorded and
13 transcribed by Irene Delgado of Paul Baca Court Reporters.
14 Our technical host this morning is Baylen Lamkin. In the
15 event you have an issue with audio or visual issues on Cisco
16 Webex, please communicate through the chat function with
17 Mr. Lamkin.

18 When we broke yesterday afternoon, we had begun
19 Mr. Bolander's testimony, but there is more to be had there.

20 Counsel, are there any preliminary issues before
21 we return to Mr. Bolander? Ms. Fox.

22 MS. FOX: Madam Hearing Officer, I just heard
23 from Mr. Biernoff that he is not able to connect, and I
24 don't know if I should chat with Mr. Lamkin. I gave him
25 Mr. Garcia's telephone number.

1 HEARING EXAMINER ORTH: Yeah, the technical hosts
2 are on rotation. Mr. Lamkin, is that something you believe
3 you can help Mr. Biernoff with?

4 MR. LAMKIN: Yes. I should be able to help. I
5 can give Ms. Fox my phone number in a chat.

6 HEARING EXAMINER ORTH: All right. Thank you.

7 MS. FOX: Maybe, could I give you Mr. Biernoff's
8 number?

9 MR. LAMKIN: Yeah, that works, too.

10 MS. FOX: It is --

11 MR. LAMKIN: Do you want to just send it in a
12 chat?

13 MS. FOX: Sure, will do. Thanks.

14 HEARING EXAMINER ORTH: Are there any other
15 preliminary issues?

16 MS. PARANHOS: Yes, Madam Hearing Officer.

17 HEARING EXAMINER ORTH: Ms. Paranhos.

18 MS. PARANHOS: Thank you. Yesterday you
19 indicated that you would like the parties to discuss some
20 suggestions ensuring that the hearing's completion by the
21 15th. I was curious when today you were planning on having
22 us discuss that.

23 HEARING EXAMINER ORTH: Madam Chair, I would like
24 as much of the Commission as possible to be involved in that
25 discussion. Do you have a suggestion as to when we have it?

1 CHAIRWOMAN SANDOVAL: I can check and see when
2 Dr. Engler may be able to participate today, and if not
3 today, tomorrow, maybe, and try to have that discussion when
4 he's on.

5 HEARING EXAMINER ORTH: Thank you for that. Ms.
6 Paranhos, there's your answer.

7 MS. PARANHOS: Perfect, thank you.

8 HEARING EXAMINER ORTH: Are there any other
9 preliminary matters we can discuss?

10 (No audible response.)

11 HEARING EXAMINER ORTH: Ms. Fox.

12 MS. FOX: I think the planning does bear
13 discussion, and -- let's see, I'm a little bit concerned
14 because it's Thursday and if we discuss this Friday, I'm
15 worried about hard deadlines next Friday for us being able
16 to put on our direct case fully.

17 And I just want to put a pin on that idea that I
18 don't want extended cross-examination, for example, to
19 interfere with our ability to put on our direct case if
20 there is a hard stop at January 15.

21 That is my concern. I just want to note that.

22 HEARING EXAMINER ORTH: Okay. Thank you, Ms.
23 Fox. Anything else? I don't see Mr. Biernoff on the line
24 just yet.

25 MS. PARANHOS: Madam Hearing Officer, I just

1 wanted to concur with what Ms. Fox just stated. I am also
 2 concerned about the extent of cross-examination and the
 3 amount of time it's taking and absolutely do want to
 4 culminate this hearing in the time frame that the Commission
 5 desires. So when we are able to talk about it, certainly
 6 one of our suggestions would be for time limits on
 7 cross-examination.

8 HEARING EXAMINER ORTH: All right. Thank you.
 9 We may get to the point where we have to ask Mr. Biernoff to
 10 call in rather than come in on the computer. Mr. Lamkin,
 11 any progress?

12 MR. LAMKIN: He said that he thinks it's an issue
 13 with an IT permission on his end, so he said that he would
 14 join as soon as he can, but he doesn't want the proceeding
 15 to be held up.

16 HEARING EXAMINER ORTH: Thank you very much,
 17 Mr. Lamkin. We will proceed then. Mr. Ames, if you would,
 18 please, and, Mr. Bolander, if you can turn on your video.

19 Whenever you are ready Mr. Ames.

20 JAMES L. BOLANDER

21 (Previously sworn, testified as follows:)

22 CONTINUED DIRECT EXAMINATION

23 BY MR. AMES:

24 **Q. Jim, when we stopped last night, I believe you**
 25 **were on slide 71; is that correct?**

1 A. Yes, we had just finished definitions, and we
2 would be moving to a slide that introduces Section 28.8,
3 venting and flaring of natural gas.

4 **Q. Okay. Then just proceed then.**

5 MS. POLAK: Mr. Bolander, excuse me, this is
6 Tiffany Polak. Mr. Lamkin, if you can allow me to present,
7 I will share the screen with Mr. Bolander.

8 MR. LAMKIN: Give me just one sec.

9 MS. POLAK: Thank you.

10 MR. LAMKIN: I think you should be able to now.

11 MS. POLAK: I think you have to make me a
12 presenter. Okay. There we go. Okay. And, Mr. Bolander,
13 if you can just confirm I'm on the right slide you wanted.

14 THE WITNESS: Yes, that's it.

15 MS. POLAK: Great, I will get out of your hair.

16 A. All right. Yesterday evening we finished up, you
17 know, kind of an overview for 28 as well as introduce some
18 of the definitions which is the first main section of the
19 rule.

20 The next section of the rule that I would like to
21 highlight is Section 28.8.A, which also is consistent with
22 Part 27. As you can see, for both rules it's the same
23 language throughout.

24 Yesterday Matt highlighted all three sections of
25 the rule spending significant time on the first top two

1 parts. I want to spend a little bit of time with the last
2 sentence, and primarily the part that states that the
3 operator shall flare rather than vent exception when flaring
4 is technically infeasible or would pose a safety risk.

5 The first, you know, comment that I would like to
6 make, and this is in regard to, you know, some of the
7 discussion yesterday is the words "technically infeasible."
8 These are common words. Actually this was pulled from the
9 BLM Rule 3170, specifically in Exhibit 37. I'm looking down
10 at my notes, so it's Section 3179.6, which is venting
11 limitations. And also it's a term that's used to understand
12 from an engineering perspective of what can and cannot be
13 done.

14 And, you know, what I want to talk about here
15 from a technical perspective is when is flaring not an
16 operational recommendation. And, you know, the first one
17 that comes up is when gas rates and flowing pressures are
18 too low to ignite and operate a flare.

19 Second is when flowing conditions vary pipe flow
20 which, you know, we'll talk about in more detail and counter
21 that initial flowback stage that doesn't allow, you know,
22 consistent flare operations; and third, when gas quality
23 such as high nitrogen after hydraulic fracturing precludes
24 ignition of the flare due to the high amount of nitrogen in
25 the flow stream.

1 You have a few examples of these. And I will
2 kind of, you know, on each area of the rule that we'll talk
3 about drilling. In most cases in our drilling operations, I
4 will go into more detail a little bit later, you know, we
5 drill to where the idea is for gas and not to get into the,
6 into the wellbore.

7 However sometimes it does, it happens while you
8 are drilling. It's actually the drill porosity, and that
9 gas is entrained in the mud system, but typically it's too
10 small to capture and flare.

11 During completion, we have the initial completion
12 which is the initial flowback stage. And you mentioned, you
13 know, a few seconds ago talked about slow flow where slow
14 flow results and where you have different flow regimes,
15 where you are producing 100 percent fluid at one point and
16 then a combination of gas fluid and back and forth, so, you
17 know, operating a flare is rather difficult.

18 And then production, we will go into more detail,
19 but you've got low volume pressure situations, gas quality
20 issues, and in some cases such as we'll talk about in more
21 detail where you have large changes in volume in which the
22 flares aren't capable from a design perspective from
23 managing that range.

24 And then, you know, we talked about the safety
25 issue that when it's safer to vent, you know, would be well-

1 controlled conditions in drilling and such where, you know,
2 trying to, you know, ignite a vent would cause a safety
3 issue.

4 Tiffany, next slide, please. Thank you.

5 Here we kind of talk a little bit about, you
6 know, these sections as we move into, you know, kind of the
7 specific exceptions within the rule itself.

8 The first one is, we're in Part 27 where I
9 mention that I kind of highlight, you know, some of the
10 engineering aspects in Part 27. The first one is 27.8.B,
11 drilling operations, and the first statement is, you know,
12 operations must capture or combust if technically feasible
13 using best industry practices and control technology.

14 And I kind of teased it up a minute ago with the
15 previous slide, but when typically when we are drilling, we
16 are drilling mud or drilling fluid which is an engineer mud
17 system designed to prevent inflow of fluids into the
18 wellbore. In this case what we are talking about is natural
19 gas.

20 During the drilling process, as you drill the
21 formation, you know, gas may become entrained in the mud
22 system. It's separated at the surface, however, the volumes
23 here are typically too small to measure and capture. You
24 know, the one case where, you know, there would be that
25 instance would be during a well control incident. And in

1 that case, you know, the gas is piped away from the
2 wellbore, and at that point in time it could be flared. But
3 in most instances, day-to-day drilling operations, the
4 volume is -- the ability to capture and flare is technically
5 infeasible.

6 As we move to completion operations, which is
7 27.8.C, which now we have added recompletion into that, the
8 requirement here is described in three steps and the first
9 one is, operators must route flowback to a separator as soon
10 as technically feasible, which, by the way, is consistent
11 with the definition of reduced emission completions in 40
12 CFR 60.5375 or 5375A, depending on the well pipe.

13 And what that means is, is when the well is
14 capable of producing or capable of separation, and that is
15 you have flow conditions that are stabilized and put into a
16 separator, you do so when it's technically feasible.

17 Once you are in separation stage, that's when the
18 operator has the ability to capture the separated natural
19 gas, and you know, typically it goes into a sales point, BUT
20 in cases where there is no sales available, this is where
21 you have the ability to flare gas.

22 And what we have added to the rule is an
23 additional completion time frame in the natural gas when the
24 natural gas contains impurities such as nitrogen. Nitrogen
25 will, in most cases in this situation, will come in the case

1 of nitrogen used as a frac fluid medium, h2s or CO2, and
2 most of those are natural constituents in the gas stream.
3 And, you know, pipelines have specifications that require
4 certain limits on that.

5 I would like to move to the next slide if we
6 could, Tiffany, what I wanted to do here is, is kind of
7 concentrate a little bit on these steps. And you know, this
8 is a very simplified drawing, you know, there are many
9 pieces of equipment that we could have highlighted in here.
10 And but I really wanted to concentrate on, you know, really
11 what happens, you know, after the well is fracked. And in
12 many cases, you know, we are performing royalty stage
13 hydraulic fracturing, especially with the long laterals
14 where we're, you know, fracking many stages, and the many
15 stages, we are isolating those stages by installing plugs.

16 And then after that fracturing has occurred, the
17 next step is to drill out the plugs and initiate flowback.
18 And that's what that first block communicates is initial
19 flowback. That's when flow initiates the -- typically you
20 are flowing through a frac manifold which is nothing more
21 than, you know, a set of choke to manage rate and pressure,
22 and it flows directly, as you can see, into completion,
23 completion tanks. And that's at a full well strength.

24 The issue that happens here on some of the
25 intricacies of initial flowback is, you know, one of the

1 goals is, on flowback, is to recover as much fluid as
2 possible and to get the wells to sale as quickly as
3 possible. So we are flowing the wells back at high flow
4 rate, many times in excess of 2000 barrels a day.

5 Second, you know, we talk about drilling out the
6 plugs, so that's obviously that's debris that's coming back.
7 In addition we also recover some frac sand, so all of that
8 is coming back during the process. As mentioned before, you
9 know, during this early stage until the well stabilizes, you
10 have erratic flow, you know, resulting in, you know, slow
11 flow which could create, you know, safety issues.

12 And, you know, we are already flowing back into
13 enclosed frac tanks, and any attempt to try to, you know,
14 capture at this point could cause excessive back pressure
15 within the tanks themselves which, one, becomes a safety
16 issue; and, two, puts an artificial back pressure on the
17 well itself which could hinder and lengthen that flowback
18 time.

19 Once the flowing pressure is sufficient for a
20 separation stage, then we move from initial flowback to
21 separation stage. And as you can see, here is where we
22 separate the natural gas from the fluid, and the fluids are
23 routed to a tank, and the gas either routed to sales if
24 available or to a flare.

25 Also I would like to point out in this slide, as

1 you can see, in the initial flowback is the determination of
2 is this waste or not. With the inability of being able to
3 treat the natural gas, which is basically the first stage of
4 separation, this stage in the initial flowback cannot be
5 considered waste. So in terms of regulating, we are really
6 looking at regulating the separation flowback, and we'll
7 talk a little bit about that in more when we come up to the
8 equipment standards when we talk about separation for
9 completion and production equipment.

10 Next slide.

11 Q. Before we go on to the next slide, thank you, I
12 wanted to ask you a question here. Your discussion
13 regarding Sections 8.C or 8.B, C and D concern different
14 phases of the development process for a well.

15 There are some definitions in 27 that relate
16 directly to these phases, and I see that the Division is
17 proposing some changes to those definitions. I think it
18 would be important to discuss the purpose of the definitions
19 and the changes that the Division has proposed.

20 MR. AMES: So if we could bring up Exhibit 2A,
21 Brandon. Brandon?

22 MR. POWELL: I'm trying to get to it. When I
23 first pulled it up, it pulled up everything.

24 I'm on 2A. Which part again?

25 MR. AMES: In the definition Section 7. You may

1 start right there for the moment. Let me frame the question
2 for Jim.

3 Q. Jim, there are definitions in 7.D for completion,
4 7.O for production, and also 7.K, initial flowback, and 7.Q,
5 separation flowback. Start where you would like, but if you
6 could discuss each of those phases, the reasons for the
7 definition, the beginning and end point for those phases and
8 the proposed changes that the Division is -- the changes
9 that the Division has proposed here.

10 A. Sure, Eric. Like I said back a minute, and even
11 though you didn't mention this one is highlighted 7.E which
12 is drilling operations, and really if you want to talk
13 about, you know, how the regulation is set forth in Section
14 8.B, 8.C and 8.D you really need to begin at the beginning.

15 And drilling operations, as it states, has not
16 changed in the definition. It begins when the well is spud
17 and concludes, you know, after production casing has been
18 cemented and tubing head installed.

19 And really the intent here is to provide that
20 operational time frame, you know, when there could be, you
21 know, natural gas, you know, venting events that could be
22 occurring.

23 The next phase is completion operations, which is
24 7.D. And here we begin with a slight change in the
25 definition. And, you know, really the change in the

1 definition was meant to kind of clean things up. We had
2 these time frames scattered throughout multiple definitions,
3 and through recommendation from one of the stakeholders, you
4 know, of why we need, you know, all of those multiple dates,
5 let's set, based on your definition, and if you are going to
6 use a date, use it this one location.

7 So a completion operations begins with the
8 initial perforation of the well, and concludes at the end of
9 separation flowback, which I just explained what that phase
10 was.

11 If you have -- Brandon, if you move down to Page
12 2, and in that -- there, thank you.

13 In that completion phase, we have two components
14 of that. The first one is initial flowback which is the
15 period that begins once flowback initiates and concludes
16 when separation phase starts, which is when it's technically
17 feasible for a separator to function.

18 Then we move down to Q, which is separation
19 flowback. Here is where we have a slight change. One was
20 to delete when permit production equipment is placed into
21 service. And one of the primary reasons we did that is a
22 lot of operators today are installing their production
23 equipment prior to completing the well and using that during
24 this completion phase.

25 So there was -- it was by putting that

1 requirement in there really made completion phase, you know,
2 kind of non-existent. So we had to address that. It's a
3 proper way to address the completion stage.

4 And then we kind of modified the date a little
5 bit and put in there no later than 30 days. And then if you
6 move up a little bit, same definition -- or the definition
7 of production operations in "O" means the period that begins
8 31 days after the commencement of initial flowback and
9 concludes when the well is plugged and abandoned. And as I
10 described in Q, we deleted insulation of production
11 equipment.

12 A couple of thoughts here that I would like to
13 highlight within this from a timing perspective. If you
14 look at -- I think, the original rule, Eric, is 19.15.18,
15 which is production operations, and it regards completion,
16 there the current time frame is 60 days. And in our revised
17 version here for Part 27 we reduce that to 30.

18 We think through some of other areas within the
19 rule, specifically the case where you have off spent gas,
20 high nitrogen, CO₂, H₂S, which allows for, you know, up to
21 additional time frame for the completion stage to get that
22 gas quality into pipeline specifications. As well as on
23 exploration wells where we allow the additional time frame
24 for evaluation.

25 Really where this comes into play would be for

1 the development wells and with, you know, flowback
2 techniques today, high flow rate or high flowback rates,
3 most wells would meet the 30 day time frame, we feel.

4 Q. Thank you. Please proceed with your
5 presentation?

6 A. All right.

7 THE WITNESS: Tiffany, if you could bring back
8 the presentation.

9 A. All right. This next section is 27.8.B,
10 production operations, and I can see one error within our
11 slide in my presentation relative to Matt's presentation,
12 and Matt explained it in his, and that is the very first
13 number one has been deleted currently, and therefore, I
14 wanted to highlight that that's an error in our slide
15 presentation and it has been deleted from Part 27 in, I
16 believe, Exhibit 2A.

17 I would like to highlight just one instance, and
18 that is Number 3 to unload or clean up liquid hold up in a
19 well subject to best management practices. When we talked
20 about this, you know, in our language we highlight -- I'll
21 have to look at my notes here, get down to that -- we
22 highlight multiple categories regarding that.

23 We talk about manual liquid unloading. And
24 manual liquid unloading is when a well has been shut in and
25 that well is brought back and sent to either a production

1 tank or to a flowback tank to unload the liquids that are
2 preventing that well from flowing.

3 During manual unloading, our requirement in the
4 rule is that an operator/representative be on location
5 during this event. The primary reason for this is that all
6 wells, even the same well during this process may clean up
7 at different times. It doesn't always happen where a well
8 cleans up four hours every time you do it. So having the
9 representative on location means that he's able, under best
10 management practices, to put that well back into sales as
11 soon as practical.

12 Other areas within here that we highlight are
13 unloading events using plunger lift and auto controllers,
14 you know, and these are considered, you know, normal
15 operations in mitigated events to keep the wells unloaded.

16 All right. Next slide.

17 **Q. Before you go on, I would like to ask you a**
18 **question about an exception that appears in Part 27,**
19 **specifically the exploratory well provision.**

20 MR. AMES: Brandon, if you could bring up 2A
21 again and go to Page 3.

22 **Q. And while Brandon does that, Jim, you may recall**
23 **that yesterday Matt testified regarding this exception, but**
24 **he said that you might have some more information to provide**
25 **the Commission based on your experience of -- and**

1 **explanation of how this provision is intended to work. If**
2 **you wouldn't mind?**

3 A. All right. Thank you, Brandon. There we go.
4 What I wanted to highlight here specifically, you know, in
5 this provision we're allowing operators, you know, to extend
6 the flowback period for up to 12 months. And you know, it
7 isn't -- it's in every operator's best interest to evaluate
8 this well as soon as possible and have the ability to put it
9 to the sales as soon as possible primarily to begin
10 generating revenue when possible.

11 However, the way the language is written is, you
12 know, we allow for this to be, you know, there's a time
13 frame, you know, once the operator determines that the well
14 is capable of producing in paying quantities, that is
15 sufficient. Not, not a one (unclear) time frame, you know,
16 when the operator has determined that he has a viable
17 product, then they file a form C-129 and new management plan
18 and time frame to put this well into sales.

19 The reason why we left this more, you know, open-
20 ended and had this Section C is that, you know, this is
21 really reservoir and well dependent. You know, for example,
22 a gas well, you know, it falls under an exploration
23 category. As a gas well your product is natural gas. So,
24 you know, doing an extended 12-month period means you wasted
25 a lot of gas, and you are going to attempt to evaluate this

1 well as quickly as possible and move on to the next stage.

2 In addition to that being a gas well, you have a
3 much probably shorter time frame to evaluate this well, you
4 know, using either decline curve, rate transient analysis,
5 you know, multiple engineering techniques to evaluate, you
6 know, the reserve component of this well and the ability to
7 expand the reservoir.

8 For oil wells the difference specifically in
9 shale wells where we started out with extremely high rates
10 and very steep declines before we even get a chance to see
11 the well decline and turn over to a base decline. So we
12 allow for this time frame during this, this time period
13 where you are extremely hyperbolic, which means, I guess,
14 kind of like I explained, it's a decline from high rate, and
15 then the well eventually turns over and has a natural
16 decline rate.

17 Even with some of the engineering tools such as
18 rate time transient analysis, you know, this could be
19 difficult to determine in a short time frame, you know, so
20 therefore we've allowed for more time for this evaluation to
21 take place, you know, because at the end of the day the
22 operator is looking at, you know, evaluating a new, a new
23 field, a new formation, you know, that would be future
24 development, you know, that they are considering.

25 Q. Thank you, Jim. Let's return to the slides. I

1 **believe we are now on 76.**

2 A. Yes. All right. Sorry, folks, we actually have
3 it corrected here and unfortunately forgot to correct it in
4 the other one.

5 What I wanted to highlight here is these are the
6 the exceptions that are relative to Part 28, which is the
7 natural gas gathering rule. And here we only have one
8 section. We don't have the multiple phases of operation, so
9 for the midstream operations exceptions, they're in 28.8.B.

10 As you can see they are very similar, almost
11 identical in most cases to the exceptions that are located
12 in Part 27. The only difference or the primary difference
13 is the fact that in Part 27 we have well operations, you
14 know that are unique to upstream that are not downstream.
15 And, you know, so I wanted to cover that, kind of talk about
16 the differences and why, you know, the rule itself has a
17 slight little bit of difference in it.

18 Next slide, please.

19 Thank you. Now back to Part 27, you are going to
20 see this throughout my presentation, and I will try to make
21 note of when I'm either talking about both rules or each
22 rule separately, you know, but I think it's key, you know,
23 with what we are trying to do here.

24 And the very first one is completion and
25 production equipment must be designed for maximum

1 anticipated throughput and pressure. You know, Matt
2 highlighted this, and, you know, the very first, you know,
3 comment is not properly designing your equipment can result
4 in excessive volumes of waste.

5 One, undersized equipment will result in longer
6 venting and flaring events. An example here would be to
7 step back and look at the completion phase, and you know,
8 properly designing that separation stage and completion to
9 be able to place that well into the separation stage and
10 either into sales or be able to flare sooner rather than
11 later, you know, operators today are doing that.

12 We've got, you know, instances that kind of
13 stepping back, you know, from personal experience at
14 Southwestern Energy, you know, we basically redesigned our
15 production equipment to be able to handle volumes up to 2000
16 barrels a day. We were able to reduce our initial flowback
17 period that were days down to less than, you know, 24 hours,
18 therefore recovering the natural gas. In this case it was a
19 gas reservoir so it made perfect sense for us.

20 And in the case here, there is going to be cases
21 where that's going to be the same as well. The other aspect
22 of this, and, you know, we talk about this and there was
23 discussion yesterday about designing your (unclear) on the
24 production side, and there was discussion yesterday about
25 designing or maximum -- I'm trying to think. If you don't

1 mind, I would like to look at the language in Part 27 that
2 was talked about in 8.A, maximize the recovery of natural
3 gas.

4 And here what I would like to talk about in
5 number one is maximize recovery from the well. And, you
6 know, as a complete -- as a completion production engineer,
7 that's what my focus was.

8 And in this aspect I want to talk about what is
9 considered a best practice, which is to evaluate your
10 reservoir, your hydrocarbons based on a change of state or
11 phase behavior and the ability of maximizing your recovery
12 through separation stage design by having the ability of
13 designing your production equipment by taking an additional
14 separation stage to stabilize your hydrocarbon, recovering
15 more oil or condensate, minimizing the flashing that could
16 occur in the tank which is wasting natural gas through
17 better equipment design and engineering.

18 The next discussion I would like to highlight --
19 I'm sorry, stay on the same slide, please -- is automatic
20 gauging equipment on you storage tanks. And this will allow
21 operators to gauge tanks without opening the safe hatch.
22 And the way the language is written is the way that it's
23 being installed on tanks that are either routed to a flare
24 or routed to control equipment.

25 What that means is that these tanks are already

1 flashing excess gas, therefore that's why they are routed to
2 control equipment and/or a flare. So using manual gauging,
3 which is physically opening up the safe hatch and gauging
4 it, manually gauging it, means that excess or excessive gas
5 as defined by the regulation and by the statute is being
6 wasted. Therefore, we are asking that, you know, operators
7 on new storage tanks that meet these conditions install
8 automatic gauging equipment.

9 The third component is flare stacks. And what
10 you've seen throughout the rule, we have had some deletions
11 and, you know, mentioning properly sized throughout every
12 step of the rule, we move this back to equipment performance
13 standards.

14 So flare stacks are to be properly sized, which
15 means, based on their gas composition, volume and pressure
16 ranges, and be equipped or retrofitted with an auto igniter
17 or continuous pilot.

18 These are two separate things. A continuous
19 pilot requires that the flare have a separate ability to
20 maintain that pilot. In other words, it stays lit
21 regardless of whether there is gas flowing to the flare or
22 not. And the auto igniter requires some sensing device to
23 ignite the flare if it goes out.

24 And then the fourth is the exceptions which Matt
25 talked about in detail yesterday.

1 Now we can move to the next slide, thank you.

2 Here we talk about the equipment performance or
3 performance standards relating to inspection or AVO And what
4 we did here is modified the July draft to be consistent with
5 the proposed NMED AVO language that was proposed back in
6 their original draft.

7 As inspection lists in the language and as the
8 definition of AVO is, it requires such a facility be
9 inspected utilizing three senses, site, sound and smell, to
10 inspect externally, not any internal, for leaks or releases
11 of natural gas.

12 One of the things that I would like to emphasize
13 is this inspection is not (unclear). This is not leak
14 detection repair, which is part of the air emissions
15 requirement that NMED will be regulating. This is simple
16 AVO which normal operators perform on location when they are
17 out there.

18 It is not meant to be a robust system using
19 optical gas imaging equipment. It's not meant to be a
20 robust inspection and repair and reporting requirement, as
21 you will hear later specifically probably from Brandon, you
22 know, what the Division will be asking for is, is you
23 perform the inspection, did you find any deficiencies and
24 what were they. And even then we are not requiring that you
25 submit anything, only that it be available.

1 We added a new section within equipment
2 performance standards, and this is the ability to use
3 automated monitoring technology in lieu of AVO. And this
4 came as a recommendation from one of our stakeholders from
5 industry. And what this allows for is many operators today
6 are installing scada-type equipment, which is automatic
7 monitoring equipment that they can monitor off-site,
8 pressures, weights from multiple low points within the
9 facility and wellsite.

10 And what this does is it allows you to monitor
11 the site's performance as well as -- as well as help,
12 therefore if you see any changes, it allows you to address
13 that change immediately, you know, as opposed to having an
14 operator on a normal route he can review his morning report
15 and know which wells need to be addressed immediately.

16 So, therefore, this type of technology may be
17 submitted to the Commission or to the Division for review
18 and used in lieu of AVO.

19 Next slide, please.

20 I would like to move, now moving over to 28, Part
21 28, similar section that we (unclear) operation standards.
22 And the reason being is that we have already talked about
23 equipment in Part 28 if we did have, where we do have
24 notices of equipment, we refer back to Part 27, but we want
25 to highlight in Part 28 some of the operational performance

1 standards.

2 The very first one is that an operator must
3 submit to OCD and implement an operations plan to reduce and
4 minimize leaks and waste. We were specific that the rule
5 does not recommend or the rule recommends but does not
6 require specific procedures and methods, but we highlight,
7 you know, some that we feel are used today by many midstream
8 operators who to maintain the operational ability of their
9 pipelines and facilities.

10 If you remember back from the July draft through
11 the October draft of this rule, we removed, I would say,
12 close to eight to nine sections within the rule. And after
13 further discussion with our legal counsel, as well as
14 counsel from industry, we realize that these sections were
15 pre-empted by the Federal Pipeline Safety Act, and so
16 therefore it was correct to remove them from this rule as
17 that the Division did not have the ability to regulate those
18 requirements.

19 Next slide, please.

20 The next slide highlights a few categories within
21 the rule. I can probably put these into two categories, the
22 first two being C.2 and C.3. They are very similar, but
23 there's a little bit of difference now.

24 C.2 regulates scheduled maintenance with
25 prohibiting venting and requiring that operators bring a

1 portable flare on location to be able to flare the gas. Or
2 28.C.3, this is during unscheduled maintenance or
3 emergencies that require maintenance that we are asking for
4 a similar provision unless flaring is infeasible or poses a
5 safety risk.

6 Also a part of this is the consideration of
7 operators use best practices. You know, for example, during
8 our blowdown or to perform operations, you know, to reduce
9 the line pressure prior to performing scheduled maintenance,
10 therefore minimizing the amount of vented or flared natural
11 gas.

12 The next two categories are C.4 and C.5. C.4
13 corresponds to the weekly AVO inspections that we have
14 highlighted in Part 27. And this is specific to the
15 associated facilities associated with midstream operations,
16 specifically compressor stations, treatment facilities and
17 such.

18 The last one is for pipelines specifically, and
19 it's an annual monitoring of the entire length of the
20 gathering system. This can either be done through AVO, you
21 know, for example, operators get on an ATV and driving the
22 length of the section, could be performed by the use of one
23 of the approved alarm technologies or other valid technology
24 detection such as smart (unclear) and such.

25 So this gives the operators the ability to, you

1 know, perform these inspections using various techniques.

2 Tiffany.

3 We highlighted -- matt mentioned it, and I
4 mentioned it in my overview that we have a couple of new
5 sections which are kind of unique to Part 28, and this is
6 one of them, and this is a requirement for midstream
7 operators to notify affected upstream operators in advance
8 of maintenance, whether it's scheduled maintenance or
9 unscheduled maintenance.

10 And the reason for this is that by making that
11 notification, it allows upstream operators to put plans in
12 place to allow them to reduce their potential venting or
13 flaring due to the shutdown or pressure increase that they
14 may be experiencing.

15 It allowed them to put their plans in place to
16 basically affect their operations. It's broken down into
17 two categories. The first one is scheduled maintenance and
18 requires, you know, midstream operators to notify upstream
19 operators that are on their system within 14 days' notice.

20 The second is for emergencies, unscheduled
21 maintenance, or for malfunctions. And this is for a 12-hour
22 verbal notice, and then 24-hour written follow up of the
23 unplanned event. The second notice is probably the most
24 critical as these are the ones that are unforeseen by the
25 midstream side as we talked about in the definition of

1 emergency, and also has probably the greatest effect on
2 upstream from a timing perspective to allow them to effect
3 what they can do within the time period allotted for them
4 and their definition of emergency.

5 Next slide please, thank you.

6 Now, I'd like to highlight a little bit on, you
7 know, measurement. And, you know, Matt highlighted all the
8 sections well. What I'm going to talk a little bit about
9 here is what's required, you know, requiring meters to
10 measure volumes of natural gas if practical, and we allow
11 estimations of volumes of natural gas if it's not practical
12 to be able to do so.

13 A couple of changes, but this may be a good
14 opportunity, Eric, for Brandon to pull up, I believe it is
15 27.8.F, if you don't mind. Thank you, Brandon.

16 The part I wanted to highlight here are some
17 changes that we made within the, you know, from the October
18 draft, and really even highlight some of the changes from
19 the July draft.

20 The July draft, you know, in terms of measuring
21 equipment, you know, really the language, you know, that we
22 highlight were very typical to the use of orifice meters
23 standard throughout the industry. You know, comments we
24 received from industry regarding that was that, you know,
25 point blank, orifice meters have a small range of accuracy

1 and that they really need the ability to have the -- to use
2 additional types of a meter such as thermal mass or
3 ultrasonic within that.

4 In our October language, you know, we actually
5 spell that out. Didn't pull it up as a -- as one of our
6 exhibits since we deleted it, you know, but some of that
7 original October language, you know, we pulled from the
8 Texas Railroad Commission, which I believe it's their Rule
9 26, you know, where they kind of use some of that language
10 and spelled out various technologies and such.

11 But the change from October to date was a little
12 bit more specific, and you know, this was an industry
13 request and that basically we are asking that industry
14 conform their measuring equipment based on this API
15 measurement standard.

16 And what's unique to it is that it's unique to
17 the measurement of flow of flares, and in it, it highlights
18 all of these various technologies and what are the pros and
19 cons of each. So by making this change, it actually was a
20 more appropriate reference to make within this, within this
21 regulation.

22 You know, while we've got this up here, you know,
23 I can talk a little bit about some of the other, you know,
24 comments that are comment changes that we have specifically
25 at 5, you know, where, you know, we spell out that if, you

1 know, circumstances are such, such as low flow rate or low
2 pressure, you know, where you have venting and flaring,
3 operators may estimate, you know, using methodologies that
4 can be independently verified.

5 And there are multiple sources for this type of
6 calculation. You will hear probably from some, and also
7 there's use of EPA calculations and factors. We'll talk a
8 little bit in the future about modeling techniques that can
9 be used specifically around flash modeling, but there are
10 ways of being able to do that, and the ability to put side
11 bores on use of specific or a specific pressure or a
12 specific rate really would be putting too many side bores
13 due to technological changes and the ability of what you are
14 able to do.

15 I feel like we hopefully have captured some that
16 have with our Subsection Number 7 which gives the Division
17 the ability to request from the operator additional
18 equipment if it deems fit.

19 In addition to that, we talk about, you know, the
20 the use of gas oil ratios for wells that do not have
21 measurement equipment, and this would be the case where you
22 have older facilities in which multiple wells are coming
23 into a central facility, and these wells are performing
24 annual gas oil or GOR tests, which is currently regulated by
25 the Division and it's Rule 19.15.18. And these reports are

1 filed annually on its form C-116 which is a requirement by
2 the state currently today.

3 If we can go back to the slides, Tiffany, that
4 would be great. And next slide, thank you.

5 You have seen this slide. I don't want to spend
6 too much time on it, but there were some significant changes
7 that were made from July to today, so I thought it would be,
8 you know, efficient to readdress it, you know, with the fact
9 of, you know, what we were trying to do. You know, from the
10 July to October draft, you know, there was a sense that this
11 new requirement of notification of reporting venting and
12 flaring events was going to be excessive.

13 There was already a rule, Rule 29 and a form
14 C-141 that would be required. And so what we -- the main
15 goal and there revisions here that we put forth in the
16 October draft was to really bring these two rules together
17 and to separate the events.

18 The new Rule Part 27 and Part 28 and their
19 respective sections require releases regarding gas releases
20 and the filing of a form C-129. Whereas liquid releases
21 will remain under Rule 29 in a form C-141, the reporting
22 criteria and thresholds are now in conformance with Rule
23 C-141 or with Rule 29.

24 So really all I wanted to do with this slide is
25 kind of reaffirm, you know, the requirement as -- because

1 it was a pretty significant change, you know, between the
2 two drafts.

3 Okay. Next slide, please.

4 What I want to do here -- and at some point,
5 Eric, I may ask Brandon to bring up this particular section,
6 but for right now let's keep this up.

7 Matt, in his testimony, you know, talked about
8 this report about the reporting of categories which in part
9 27 is 27.8.G.2, he talked about the fact that we, you know,
10 remove certain sections. And in one case we added a section
11 which was exploration wells, and you know, we do so for the
12 ability of making sure we are capturing the right level of
13 detail, you know, for the Division to be able to evaluate
14 the efficacy of the data that they are getting and that the
15 reporting of venting and flared data is accurate.

16 You heard from Tiffany in her presentation. You
17 heard from Matt in his presentation, and I will reiterate
18 it, and we can pull up the same pages from the map report as
19 well where reporting and accuracy was one of the key issues.

20 What we have done here is talked about some of
21 the deletions and revisions that we made. I'll put this in
22 a couple of categories, and although I won't highlight each
23 of these, I will talk about a couple.

24 The first one is non-scheduled maintenance and
25 equipment malfunctions. This was an area that we felt that

1 we could combine these events and put them under one
2 category, thus eliminating the reporting of two categories.

3 The next two categories, drilling operations and
4 completion operations, the first one, drilling operations,
5 we talk about that a little bit. One, with the way drilling
6 operations are reported, you know, we want to make sure that
7 we are capturing, one, venting and flaring events that are
8 considered waste; and, two, what are potential volumes under
9 drilling operations and normal drilling operations where
10 your system is such that there is no in-flow, all you are
11 getting is entrained gas from the mud system. These volumes
12 are much too small to be able to capture and measure.

13 For the completion operations what we have done
14 is deleted the volumes prior to separation for a couple of
15 reasons. One is that, you know, the safety aspect of being
16 able to capture and separate, and the other, I do mention
17 too small to measure. In some cases that will be the case,
18 especially early. However, there will be some cases where
19 the volumes right before separation are such that could
20 be -- that are sufficient.

21 However, the methodologies of trying to estimate
22 are inadequate at best. During this stage you are looking
23 at choke flow, and choke flow, if it was a, you know, single
24 phase -- and what I mean by single phase, gas only -- can be
25 estimated accurately.

1 However, prior to separation, we've got multiple
2 phases of fluid. And when I mean fluid, it means gas,
3 water, oil, and trying to calculate a gas volume in
4 multiphase flow is highly inaccurate.

5 The third category I would like to highlight is
6 pilot and purge gas. And the reason why we deleted that is
7 currently today in operator C-115 reporting, which is the
8 current reporting mechanism, these volumes fall under lease
9 use, also known as beneficial use in some cases.

10 The other two categories we deleted were
11 Bradenhead and packer leakage tests. Similar to drilling
12 operations, these operations do not constitute waste, and
13 also these tests are extremely short and the volumes are
14 typically too small to measure due to pressure and volume.

15 I would like to highlight exploration wells. The
16 reason why we added this in is because, A, we have been
17 given the exception in Section 8.D, as well as in, you know,
18 mass presentation in the accounting section.

19 And without adding this category, this section
20 would have fallen under the category of, of producing due to
21 lack of, you know, sales line or contract or what have you,
22 but adding this category allows for operators to report this
23 volume for wells that have been approved as exploration
24 wells be able to account in their accounting methodology.

25 I need to take a quick breath. We can move to

1 the next slide.

2 Q. Jim, before we do that, we want to go back to the
3 previous slide and finish up -- you had started this slide
4 with a reference to Exhibit 2A and Brandon bringing that up.
5 I think now would be a good time to do that.

6 A. Okay. Well, thank you.

7 MR. AMES: If we can go to the G.2.H, Brandon, on
8 Page 6.

9 A. Thank you.

10 Q. So yesterday, Matt explained this provision in
11 some detail. It -- the Division has proposed to split the H
12 category of reporting into two subparagraphs, one dealing
13 with N2, H2S or CO2, and the other with respect to O2, and
14 then treat them differently for purposes of accounting.

15 Can you explain why the Division is proposing to
16 split this category and why it's proposing to treat the two
17 categories differently, in particular, the first category
18 H.1 would not be raised, but H.2 would be.

19 A. I will do my best, Eric.

20 If we look at this, I kind of mentioned it
21 earlier, you know, the contaminants of nitrogen, H2S which
22 is hydrogen sulfide, or carbon dioxide, CO2, two are
23 naturally occurring CO2 or H2S. H2S can be placed into the
24 wellbore during the stimulation process, however, operators
25 do their best by adding biocides and such to minimize this,

1 but it still becomes an issue.

2 And then nitrogen is a known, known use for as a
3 hydraulic fracturing fluid used as a foam, specifically in
4 areas probably in New Mexico, predominantly in the northeast
5 and the gas reservoirs. And nitrogen is used either in low
6 pressure situations because it's, it's a liquid, but it
7 flows back as a gas so it aids the liquid recovery and/or
8 where the formations are sensitive.

9 Oxygen is another category. It was mentioned
10 yesterday by Mr. Feldewert that it's introduced in various,
11 you know, operations practices. I think we, in our section
12 in 8.D where we have added commissioning of facilities, I
13 feel comfortable that we have addressed the purging of
14 facilities of oxygen, and that will be placed as soon as
15 possible, once that purging has occurred, to eliminate that
16 purging as being reported here under H.I.2.

17 Other kinds of oxygen being introduced into the
18 operations could be done to faulty equipment. So therefore,
19 there is, for lack of a better way of putting it, you know
20 equipment, monitoring equipment performance where this could
21 become an issue.

22 There are operational activities that occur, you
23 know, for example, when we're, you know, jetting a well in
24 with cold tubing, you know, using nitrogen, you know, air is
25 going to get in the system.

1 Also, you know, we use, instead of foaming with
2 nitrogen, we may foam with air, you know, to clean out.
3 However, in these situations we're not introducing the air
4 into the reservoir. So therefore, when we are finished with
5 these operations and we had the ability to resend flow, and
6 the ability to resend flow to put back into a pipeline, in
7 my experience, the flowing conditions that allow me to now
8 get into the line pressure are through my equipment and into
9 the line pressure in which the well has the ability to flow,
10 the oxygen has already cleared the system.

11 So, therefore, you know, yes, there are cases
12 where oxygen does get into the system, but we're feeling
13 like, from a pipeline quality specification, you know, where
14 a transporter is going to call me and tell me, "I've got too
15 much oxygen in the system," it's going to be an extremely
16 rare event and more than likely it would occur due to
17 equipment issues as opposed to any operational concerns
18 based on my prior experience.

19 HEARING EXAMINER ORTH: Mr. Ames, if you would,
20 identify a natural point for a break sometime soon. It
21 doesn't have to be now, but sometime soon.

22 MR. AMES: We are nearly done with Jim's
23 presentation, so if we could continue for ten more minutes
24 or so.

25 HEARING EXAMINER ORTH: Certainly, thank you.

1 **Q. Back to you, Jim.**

2 A. Yes, Tiffany, if you could put the slides back,
3 please. Thank you. Next category, thank you.

4 This is kind of summarizing some of the changes
5 in Part 28 for natural gas gathering systems or midstream
6 facilities. And here we were able to reduce the reporting
7 categories from 15 to 10, utilizing, you know, the same
8 evaluation that we did in Part 27, where, A, we were able to
9 combine systems, recording to the Division will be new for
10 midstream.

11 We were able to create an entire beneficial use
12 category and were able to put all, you know, categories that
13 would be reported under this, under 1, you know, as opposed
14 to separate. So here we were able to separate and decrease
15 theirs from 15 to 10.

16 While this will be new for midstream reporting, I
17 feel like, you know, many operators already have a leg up on
18 this because many of these categories are currently being
19 reported, you know, by midstream operators under the EPA
20 Subpart W. So they are familiar with the categories and the
21 methods of being able to calculate these venting and flaring
22 categories.

23 Next slide, please.

24 This is the -- oh, sorry, forgot I had a slide in
25 between. Unique to 28.F, and we highlighted it in Matt's

1 discussion, I want to go on a little more detail here,
2 because it is a departure with how we are asking midstream
3 operators to report their lost gas in both volumetric and
4 percentage basis.

5 Originally we had them calculating their gas loss
6 from basically the point of custody transfer to the end
7 point of where that gas would be delivered, such as
8 transmission.

9 So we were asking them to calculate that gas loss
10 across the entire gathering system. And, you know, thanks
11 to discussions with industry, and you know, kind of from
12 background working at Southwestern Energy and having our own
13 midstream company, you know, we kind of realized, you know,
14 there are processes that go on within the midstream
15 gathering system that really will cause a reduction in
16 volume from Point A to Point B that aren't lost gas.

17 Many of these advances during that, during that
18 process are going from Point A to Point B is you have a gas
19 stream that's not a hundred percent methane, contains higher
20 (unclear) higher carbons that as flow conditions pressure
21 drop occurs these liquids fall out, they are captured in the
22 associated facilities what they call shrinkage to occur,
23 also during the treatment process at these treatment
24 facilities of removing CO₂, removing other impurities also
25 shrink the volume of natural gas.

1 These aren't losses. These are just natural
2 processes, but it causes the volume from A to B to be less
3 than that isn't venting and flared natural gas. So what we
4 have changed here is that the natural gas volume that would
5 be used on both the numerator and denominator is natural
6 gas gathered. And that's the natural gas gathered at the
7 custody transfer point, and then based on the reporting
8 categories that we have talked about, those will be the
9 volumes that will be used to subtract and/or exclude if
10 there is an exception in the calculation of lost natural
11 gas. Thank you.

12 Next slide, thank you.

13 Don't get ahead of myself -- my notes. We talked
14 about two sections that we added to Part 28. We talked
15 about the reporting to affected operators, and the second
16 one is location requirement, and how unique it is to -- for
17 Part 28. And that is a requirement of natural gas gathering
18 system operators to file a, a GIS digitally formatted
19 as-built map of their new and existing systems to the
20 Division.

21 I think it's important. I want to actually read
22 the objectives here because I think it's important that we
23 really understand why this requirement we are asking for.

24 You know, we feel like it's a fundamental
25 requirement for OCD to know where these gathering lines are

1 located, who owns and who operates them; two, to allow OCD
2 to track leaks and identify gathering pipelines that have
3 repeated incidents; and, three, it improves OCD's ability to
4 respond to leaks and assist response by local emergency
5 management agencies if warranted.

6 Now let's go into the details, which is the next
7 slide.

8 There are several requirements within the rule
9 itself. The first is that operators are required to submit
10 their GIS maps for new and existing gathering lines by time
11 frames based on, you know, if they are new or existing and
12 such, and you can see within the slide what those time
13 frames are.

14 Second, is a requirement that on the map to give
15 OCD an understanding is, you know, what size is that
16 pipeline, is it four-inch, is it eight-inch, what's it
17 constructed of, is it steel or is it poly.

18 Also a section of this is an update maps annually
19 that will include the location and volume of vented and
20 flared gas for releases reported under Section 28.F.1,
21 which, if you remember, that is the reporting of emergencies
22 and releases that are filed on their form C-129.

23 And as we noted that many of these pipelines, you
24 know, are large, carrying, you know, large volumes of fluid
25 and natural gas, natural gas since that's what we are

1 talking about, we want to make sure that the Division
2 acknowledges the potential for confidential information and
3 allows operators to assert confidentiality pursuant to
4 existing laws.

5 Now that concludes all of my sides. I wanted to
6 highlight a couple of things. You will see I didn't really
7 comment about the natural gas or the statewide natural gas
8 capture requirement, mainly because Matt did an excellent
9 job of explaining it. Also mainly because for natural gas
10 gathering systems, it includes the same components.

11 It requires meeting a 98 percent capture rate in
12 two distinct areas. It has, you know, ability to work with
13 operators in acquiring when they acquire midstream
14 facilities. And there is an accounting system that mimics
15 Part 27, including the alarm technology and credits.

16 What it doesn't include, is the natural gas
17 management plan, as, you know, for midstream facilities, you
18 know, if it didn't fit with what we were trying to
19 accomplish with minimizing waste within the state.

20 So in hindsight or summary, I guess would be the
21 right word, I feel like what we talked about in Part 28, you
22 know the components of the rule are designed to where they
23 should meet the main objectives of reducing waste, improving
24 measurement and reporting and meeting the gas capture
25 requirement of 98 percent for midstream operations. And I'm

1 that (unclear).

2 **Q. (Inaudible.)**

3 A. Yes.

4 MR. AMES: Excuse me, Jim. A couple of sentences
5 were very garbled on my end. Were they garbled for the
6 hearing officer?

7 HEARING EXAMINER ORTH: They were not garbled for
8 the hearing officer. However, your first few words were
9 garbled, Mr. Ames. And now you are frozen. It may help if
10 you turn off your camera briefly.

11 MR. AMES: His last comments were garbled. Did
12 the court reporter hear them clearly?

13 (Discussion with reporter about audio.)

14 MR. AMES: Okay, thank you.

15 **Q. Jim, I believe you have concluded your testimony.**
16 **Is that right?**

17 A. That's right.

18 **Q. We have one last piece of housekeeping here. In**
19 **preparing your testimony, did you reference a number of**
20 **documents which OCD has identified as exhibits in its**
21 **prehearing statement?**

22 A. Yes, I have.

23 **Q. Would that be OCD Exhibits 32 through 53?**

24 A. Yes, they are.

25 MR. AMES: Move admission of Exhibits 32 through

1 53.

2 HEARING EXAMINER ORTH: I will pause a moment in
3 the event the other parties have objections.

4 (No audible response.)

5 HEARING EXAMINER ORTH: No? Okay, OCD Exhibits
6 32 to through 53 are admitted. Thank you.

7 (Exhibits 32 through 53 admitted.)

8 MR. AMES: That concludes our examination of
9 Mr. Bolander and we will pass the witness.

10 HEARING EXAMINER ORTH: Thank you. We will take
11 a ten-minute break, and when we come back I will ask Mr.
12 Feldewert if he has questions of Mr. Bolander, thank you.

13 (Recess taken.)

14 HEARING EXAMINER ORTH: If you would, Mr.
15 Feldewert, do you have questions of Mr. Bolander?

16 CHAIRWOMAN SANDOVAL: Ms. Orth, before we start
17 real quick, Dr. Engler is expecting to be able to be on this
18 afternoon at some point, so whenever he is, he didn't have
19 an exact time, but it sounds like we should be able to
20 discuss the schedule this afternoon.

21 HEARING EXAMINER ORTH: Terrific. Thank you,
22 Madam Chair.

23 MS. FOX: Madam Hearing Officer, you did not see
24 me waiving my hand. Just one procedural point, if I could,
25 before we start with this witness. For tomorrow morning, as

1 you know, counsel has agreed and the hearing officer has
2 agreed to allow Ms. Della Begay to testify tomorrow morning
3 because of her schedule, and I was wondering it would be all
4 right to schedule for her convenience. I'm suggesting that
5 she begin first thing in the morning at 8:45, if that's
6 acceptable to everybody.

7 HEARING EXAMINER ORTH: I would propose the same
8 thing, actually. At the moment, we have just one or two
9 public commenters, so we might even slide that back toward
10 8:30 because each of the public commenters can only take two
11 minutes, and at the moment I think we have just one, so I
12 would say immediately following public comment.

13 MS. FOX: Okay. I think that's fine.

14 HEARING EXAMINER ORTH: All right. Are there any
15 objections to that from anyone else?

16 MR. AMES: No objection, Ms. Orth.

17 HEARING EXAMINER ORTH: Thank you. If there is
18 nothing else, we will turn to Mr. Feldewert's questions for
19 Mr. Bolander.

20 CROSS-EXAMINATION

21 BY MR. FELDEWERT:

22 Q. Good morning, Mr. Bolander. Can you hear me
23 okay?

24 A. Yes. Good morning to you as well.

25 Q. I'm going to share here. Can I share content?

1 A. Yes.

2 Q. Mr. Bolander, I have attempted to put up, I
3 think, what you referred to as your slide 85.

4 A. Yes.

5 Q. Okay. And then you state in here, you discuss
6 that the Division modified the rule, and you are talking
7 about 28.8.F.3 to address some concerns about the
8 calculation of the, of the lost gas percentage; right?

9 A. Yes, for midstream operations.

10 Q. Okay. And I appreciate that, but then when I
11 went to the language, okay, so I'm going to go to the
12 language now, Mr. Bolander. So I'm going to look in what's
13 Exhibit 3A, and I'm looking on Page 5, and I'm looking at
14 that reference here, 28.8.F.3. Do you have that in front of
15 you?

16 A. Yes.

17 Q. Okay. And I think I can -- I just brought it up
18 on the screen. I don't know how well anybody can see it,
19 but I brought it up on the screen. Can you -- can you
20 explain to me what language was added to address what you
21 discussed here, because I don't see it?

22 A. All right. Let me --

23 Q. In other words, I understand the effort, I'm not
24 sure the language.

25 A. Right. If you don't mind, I'm reading it.

1 **Q. Totally understandable.**

2 A. Yeah. Okay. (Reviewing document.) And had to
3 read all the way through the 3, if you don't mind, and
4 3.A -- 3.A is calculating the lost natural gas on a
5 volumetric basis. So what is, is it totaling up the
6 categories reported on the C-115 B form that will be created
7 with the ability to deduct use of beneficial use, emergency,
8 from that volume. The ALARM credits, because they will be
9 infrequent, we deleted from here and moved them specifically
10 to the accounting category in the statewide gas capture
11 requirement accounting section.

12 In 3.B we have to calculate the percentage loss
13 is, if you look at -- hopefully what we were trying to
14 accomplish is that last statement in 3.B, which is to
15 subtract the gas loss that we just calculated in 3.A from
16 the total volume of natural gas gathered and then divide
17 that by the total volume of natural gas gathered.

18 So as mentioned, natural gas gathered will be in
19 both the numerator and the denominator. With the
20 numerator you are subtracting goes loss, so therefore, you
21 know, that will give you your gas capture percentage. And
22 the main change was to prevent going through that entire,
23 through the entire system.

24 **Q. So what language change occurred that**
25 **accomplished that goal of what you -- I think you testified**

1 **taking into account shrinkage and things of that nature.**

2 A. Correct.

3 **Q. What language did that?**

4 A. Well, what you are seeing here unfortunately is
5 the October draft and not any changes that have been made
6 since October. You are not seeing the redline from July in
7 which -- that's the difference is looking at the July,
8 where, in July, you had the entire system was evaluated.

9 By only looking at the gas that's gathered, which
10 is the gas that comes in from the custody transfer point,
11 you don't need to consider all the shrinkage that's
12 accounting in there. So therefore, all we're doing is
13 taking what's -- the volume that's been gathered, and then
14 subtracting the categories from the C-115 B report and then
15 calculating it, dividing that by the volume of natural gas
16 gathered, which is before any shrinkage occurs.

17 **Q. All right. You were referencing then was**
18 **something that occurred after July, not, not to the one --**
19 **to the language that was actually published?**

20 A. In October, correct. And that was based on,
21 yeah, NMOGA's comments after the July draft was made and
22 then subsequent stakeholder meetings that went through that
23 process with us, and that's why we made that change there.

24 **Q. I understand, okay. All right. Then I want to**
25 **touch briefly on -- you mentioned the allowed venting and**

1 flaring under 27.8.F -- I'm sorry -- 27.8.E.

2 A. Yes.

3 Q. So now we're in OCD's Exhibit A, and this is, to
4 put it in context, you were discussing the fact that the new
5 draft of the rule essentially penalizes operators if gas
6 fails to meet pipeline specs and as a result is vented or
7 flared. What I mean by penalizing. Is any volumes vented
8 or flared because of oxygen content is counted against the
9 operator for gas capture; right, Mr. Bolander?

10 A. Correct.

11 Q. But if it's vented or flared due to other
12 contaminants in the system, it's not counted against the
13 capture?

14 A. That is correct.

15 Q. And you mentioned the allowance here under
16 venting and flaring for the commissioning of pipeline
17 equipment or facilities?

18 A. Yes.

19 Q. And it says for as long as necessary to purge
20 introduced impurities from pipeline or equipment?

21 A. Yes.

22 Q. Okay. So is it your position -- I guess what
23 Commissioner Sandoval was addressing yesterday is, do you
24 believe that this allowed venting and flaring, first off, if
25 it's under the commission view, would not count against the

1 operators?

2 A. Yes, sir.

3 Q. Okay. Is it your opinion that this would allow
4 venting and flaring as long as necessary to remove oxygen as
5 a result of commissioning?

6 A. Correct.

7 Q. So even if you finish with the purging process
8 and you are now in the process of reconnecting the equipment
9 to the sales point, if it still has oxygen because of this
10 commissioning, you would be allowed to vent and flare as a
11 result of this provision, L?

12 A. During that short term that that occurs. Unlike
13 the conditions of nitrogen, CO2 and h2s, that will be a
14 shorter time period of venting or flaring, as per our
15 language that we have introduced and added here, that would
16 be allowed.

17 Q. Okay. So it's -- so in other words, this
18 allowed venting and flaring is not just limited to while
19 you're actually commissioning the equipment, but then as
20 long as it's necessary to remove the impurities even after
21 you hook up to the system?

22 A. Correct. And as you stated there, it has to be
23 done before you actually connect to sales correctly.

24 Q. Well, is there a possibility that after you do
25 this commission and after you do this purging and you

1 **connect to the sales line, isn't there a possibility you are**
2 **still going to have oxygen in the system?**

3 A. In my experience I haven't seen where it exceeded
4 oxygen levels to prevent going to sales, you know, but I
5 can't say that I worked in, you know, every single basin in
6 the United States, but the ones that I have, you know, this
7 period of the commissioning has been such that it's been
8 able to clear any impurities to be able to get into the
9 sales system.

10 And we feel like this was a -- this was an add
11 that came from your December prehearing statement, and we
12 felt, you know, once we evaluated the language and what the
13 intent was, it was a -- it was a necessary add because we
14 know that during the pressure testing and hook up and all of
15 that equipment that that does occur, and we wanted to
16 acknowledge that.

17 Q. So just to be, if there is oxygen in the gas
18 **stream after the commissioning of pipelines or equipment,**
19 **and you are required to flare as a result, that would be**
20 **excused under this Subpart L?**

21 A. Yes. If it comes from, if the oxygen was
22 introduced due to the commissioning of the pipeline or
23 equipment or facilities, that would be allowed.

24 Q. Okay.

25 A. Anything outside of that is not.

1 Q. And the reason here is because it's an
2 operation -- it's a necessary operational matter?

3 A. Correct.

4 Q. And it's, it's not as a result of operator error
5 or poor maintenance or anything like that?

6 A. No, it's a part of normal operation. As a matter
7 of fact, it's part of most company's best practices to
8 install and pressure test and make sure there is no leaks
9 within the system before they are placed into service. So
10 it's a normal part of a good company's operational practice.

11 Q. And Mr. Bolander, if there are other instances
12 where oxygen is introduced into the gas stream as a result
13 of normal operations, shouldn't that likewise be excused and
14 not counted against an operator?

15 A. In my experience, and as I, you know, highlighted
16 in my testimony, cases of that would be cleanouts and such,
17 and since you are not introducing oxygen into the formation,
18 by the time that the well is capable of flowing into the
19 system, the oxygen has already been cleared, and if that's
20 not the case, then I would argue that it probably would be
21 due -- would have occurred to, you know, not following best
22 practice management practices during cleanout.

23 Q. Okay. I want to ask you about one of your
24 slides. Going to go to Slide 83, okay?

25 A. Okay.

1 Q. Now, you mentioned the completion process.

2 A. Yes, sir.

3 Q. And you discussed the initial flowback time
4 frame.

5 A. Correct.

6 Q. And if I understand it from your slide here on
7 completion operations, the Division recognizes that during
8 initial flowback there is going to be some, potentially some
9 venting of gas; correct?

10 A. Yes, sir.

11 Q. And that, is it also true that that venting is
12 usually for a short period of time and so you can get a
13 separator in place?

14 A. Yes. So if you designed your separator properly
15 to be able to initiate reduced emission completions,
16 which is required, then yes.

17 Q. Okay. And you mentioned here in your slide that
18 there is no methodology to safely capture the initial
19 flowback until you have separation in place?

20 A. Yes. I am concerned with that, I do know that
21 Colorado did make that change to require that. However, I
22 have some concerns with that from my background in
23 operations and HS&A that that can be done safely in all
24 cases. Not to say they can't be done, but to make it a
25 normal part of a regulation does give me some concern.

1 Q. So it's not something based on your experience,
2 Mr. Bolander, that you would recommend at this point in
3 time?

4 A. Correct.

5 Q. Okay. I want to ask you about AVO inspections,
6 okay? So I want to jump up here to Slide 77.

7 A. Okay. I'm moving with you with my copy of the
8 rule, if you don't mind.

9 Q. That's fine. I think that would be great because
10 here you are talking about 27.8.E, but I really want to
11 focus on the statement here, and I think I'm on the right
12 slide. You say that there are provisions in the rule
13 addressing AVO inspections where the Division is suggesting
14 weekly; right?

15 A. Correct.

16 Q. Okay. And you indicate that the Division
17 modified the rule to conform with NMED requirements. Are
18 there -- are you suggesting that the current NMED
19 requirements impose weekly inspections?

20 A. What that is meant to mean in the slide is that
21 the original draft of the NMED language set forth specific
22 requirements that should be performed during an AVO
23 inspection. And in our language specifically beginning in
24 E.R.A, all the way through 5 -- yeah -- 5.A little 3, all of
25 those, that language we, you know, in our collaboration with

1 NMED, pulled that language from their draft to be specific.

2 The one thing we added was the external, which
3 was a recommendation from NMOGA.

4 Q. So my question on your slide here, the suggestion
5 the NMED currently requires weekly AVO inspections; is that
6 correct? They don't currently require AVO inspections, do
7 they?

8 A. I'm not sure what they require. We wanted to
9 conform with the specific language on, you know, what that
10 inspection entailed, not the timing of it.

11 Q. So I guess my question to you is, are you aware
12 of any current AVO inspection requirements that are weekly?

13 A. Of any regulatory requirements that are weekly?

14 Q. Any AVO.

15 A. AVO inspections, not any regulatory, no.
16 However, I would say that most companies, lease operators,
17 every time they are on location probably perform one. The
18 only thing that we are asking is that, you know, if the well
19 or facility conditions meet, that they just check a box to
20 say that they performed one, and if they found any issues,
21 make note of it.

22 You know, as I mentioned, you know, we did not
23 want to because we know that we are dealing with waste and
24 not air, you know, we -- hopefully in my testimony it came
25 across this is not a leak detection and repair program

1 because we know that's out of our lane.

2 Q. On that point, I wanted to ask you about another
3 slide, slide 78, okay? So I'm going to -- yeah, slide 78,
4 the next one.

5 A. Yes.

6 Q. And you are referencing the current requirement
7 in the rule under 28.8.C.1 which is labeled, I believe,
8 performance standards?

9 A. Correct.

10 Q. And that the operator, this would be a gathering
11 operator, would implement and operate this plan?

12 A. Yes, sir.

13 Q. And if I go to the language, you see it's turning
14 on Division, on the Division's 3A, the bottom of Page 2,
15 that's the performance standards and it goes over here in
16 C1; right, Mr. Bolander?

17 A. Yes, sir.

18 Q. Okay. Now you mentioned that this is a
19 particular area that is governed by other state and federal
20 agencies?

21 A. All the sections that were removed, yes.

22 Q. Okay. Would you agree with me that, that issues
23 such as the cathodic protection, corrosion control, I'm
24 looking at the language here, liquids management, tech
25 management, those are areas that are governed by other state

1 **and federal agencies?**

2 A. In a robust safety plan, yes. However, if you,
3 you know, read our language, we're not requiring those, we
4 are suggesting those --

5 **Q. Okay.**

6 A. -- as guidance. I would, I would, if you don't
7 mind me characterizing this section --

8 **Q. Well, let me ask a couple questions first.**

9 A. Please do.

10 **Q. In light of the fact that this is an area**
11 **governed by other state and federal agencies, what does the**
12 **Division plan to do with the plan once it's submitted?**

13 A. One, they will have it on file, and they will be
14 able to review, you know, with the sections that we had on
15 reporting of emergencies, the reporting of location
16 requirements. If there are excessive leaks and events, they
17 can refer back to this plan to see if the operator in fact
18 has an adequate plan to manage their system.

19 I would look at this as nothing more than if we
20 look at it on a midstream area. You know, the Division
21 requires certain requirements of upstream operators to meet
22 certain criteria in drilling to complete a well. This is a
23 first you know, regulatory section for OCD to regulate
24 pipelines, to me this is a pretty simple requirement to have
25 a plan in place to show that they are managing their

1 operations to minimize leaks, and also, from a (unclear).

2 Q. So do you anticipate that the Division, for
3 example, is going to question or make suggestions for, on
4 cathodic protection or corrosion control or integrity
5 management for things or other matters that are listed in
6 here?

7 A. They may have for records of your routine
8 maintenance to make sure that you are, you know, managing
9 your equipment, your cathodic protection, do you have your
10 tests to show that your system is actually working, and you
11 know, to also put this in place. And I know we are headed
12 towards a fine line between, you know, what the state can do
13 versus what a regulated entity can do, but I would like to
14 point you to Colorado and fortunately it was in one of our
15 exhibits --

16 Q. Let me stop you right there.

17 MR. AMES: Objection, Madam Hearing Officer, can
18 Mr. Feldewert allow Mr. Bolander to finish his sentence at
19 least?

20 MR. FELDEWERT: Well, my question. My question
21 was --

22 MR. AMES: Madam Hearing Officer, can the witness
23 be allowed to finish his statement?

24 HEARING EXAMINER ORTH: Sorry. I needed to
25 unmute myself. So one of the issues that we are hearing

1 noise from Mr. Ames, from Mr. Feldewert and from Mr.
2 Bolander, and so some of what's been said, if you don't wait
3 for the last person to finish their sentence is garbled.

4 Now, Mr. Bolander is giving expansive answers to
5 Mr. Feldewert's questions. Mr. Feldewert, if you could try
6 to break in perhaps between sentences, we won't have some of
7 this garble.

8 So, let's see. Mr. Bolander, if you would focus
9 on answering Mr. Feldewert's questions, certainly if Mr.
10 Ames wants to draw you out further on the broader context of
11 your answers he can do that on redirect. And Mr. Feldewert,
12 did you get an answer to your last question?

13 MR. FELDEWERT: I believe I did. I mean -- and
14 let me just try to --

15 Q. Mr. Bolander, this provision not designed for the
16 Division to regulate such things as cathodic protection or
17 corrosion control or integrity management; correct?

18 A. Correct.

19 Q. And the Division is proposing that this type of
20 plan should be submitted to them for all -- by all gathering
21 operators?

22 A. Correct.

23 Q. Even those that are meeting their gas capture
24 requirements?

25 A. Yes, sir.

1 Q. Okay. Give me one minute. I think that's all
2 the questions I have.

3 (Pause.)

4 Mr. Bolander, someone asked me to clarify, okay,
5 and I believe we can do it with you. If, if oxygen is
6 introduced into the system as part of the commissioning
7 activity, okay, is it then not counted against the operator
8 on its gas capture percentage?

9 A. For commissioning facilities, yes. That's why
10 the allowance is put in there to allow for once it's
11 cleared, that's the -- that's the time period that's
12 allowed.

13 Q. Okay. And that's under that Subpart L that
14 you --

15 A. I believe so. I believe that's the right
16 citation.

17 Q. Great, okay. Thank you, Mr. Bolander.

18 A. Thank you.

19 HEARING EXAMINER ORTH: Thank you, Mr. Feldewert.
20 Mr. Biernoff -- and by the way, for the record, Mr. Biernoff
21 did join us just a few moment after we were reporting on his
22 difficulties this morning.

23 Mr. Biernoff, do you have questions of Mr.
24 Bolander?

25 MR. BIERNOFF: I have just a few questions for

1 Mr. Bolander, Madam Hearing Officer.

2 And I am wondering if the kind of assistance that
3 the participants received from the Oil Conservation Division
4 staff might be available again to call up a particular
5 exhibit on the screen, and this is Exhibit, OCD Exhibit 2A.

6 MR. POWELL: I can pull that up.

7 HEARING EXAMINER ORTH: Mr. Feldewert, would you
8 mute yourself, please?

9 MR. FELDEWERT: I apologize, yes.

10 MR. BIERNOFF: Mr. Powell, thank you. If that's
11 who called up the exhibit on the screen, thank you for your
12 assistance with this exhibit.

13 CROSS-EXAMINATION

14 BY MR. BIERNOFF:

15 Q. And could we turn to what I think is Page 5 of
16 the document? And we are looking at 19.15.27.8.F like
17 Friday of the proposed rule. Mr. Bolander, can you take a
18 look at the language of Subpart 4 and F like Friday 4, and
19 you see a reference there to metering not being practical
20 under such circumstances under both low rate or low pressure
21 venting and flaring.

22 Is there any definition in the proposed rule for
23 a what counts as low flow rate or low pressure venting and
24 flaring?

25 A. You know, from a standpoint of here, you know,

1 there is no definition of low flow rate or low pressure.
2 You know, there are certain events, you know, that are
3 highlighted in, I believe, 27.8.D which is production
4 operations that lists several categories, some of them are
5 low pressure such as, you know, pneumatic, venting from
6 pneumatics, you know, venting from thief hatches. This was
7 an attempt to capture would be low pressure and low flow
8 rate venting of, you know, gas from associated wells in
9 which the volume would be too low to be able to meter.

10 That's why you have the requirement, you know, to
11 use GOR in cases such as that or estimation methods. And
12 what we wanted to account for there, and this was based on
13 your prehearing statement is to make sure that we had --
14 that whatever methodology would be used, if there was a
15 third party on it, could be independently verified, you
16 know, outside of OCD and that third party can look at that
17 methodology and be comfortable that these volumes were
18 accurate using the methodology used.

19 **Q. Is there a uniform understanding about what**
20 **counts as low pressure venting and flaring?**

21 A. I think it's pretty well established. You know,
22 one of the areas, you know, I think we get into with low
23 pressure or low flow rate is, you know, the ability of what
24 meters can do. Most meters in the field are orifice type
25 meters and require a pressure valve across ends to be able

1 to accurately meter gas. And when that pressure is too low
2 to actually be able to create that pressure drop, you have
3 the ability of measuring.

4 And likewise, on low flow rate, you know, is, you
5 know, you may see that pressure drop, but you may not see
6 any movement across that differential to be able to measure.
7 So, you know, struggle around, you know, putting in a
8 definitive numbers or side bores around here, but
9 understanding that, and I think, you know -- you know, the
10 Division is comfortable with their understanding and
11 knowledge of what is considered low flow and low pressure to
12 be able to manage this particular section of the rule.

13 Q. Thank you. (Unclear) and I'm wondering if we
14 look a little further down into F 5, there's reference to a
15 methodology that can be independently verified. Does the
16 Oil Conservation Division have a good understanding of what
17 methodologies can be independently verified?

18 A. They will have a good understanding from the
19 reporting on the C-115 B, you know, we are asking that, you
20 know, the volumes that are estimated, you know -- one, we
21 are asking for the volumes that are being reported, how are
22 they being measured? Is it metered or is it estimated, if
23 it an estimate is it a calculation or is it a factor, and we
24 are asking for the methodology. Is it using, for example,
25 EPS subpart calculations, is it using manufacturing data,

1 and/or is it using data say from, you know, AGA, American
2 Gas Association or API, you know, and they have the
3 understanding of what type of sources are available.

4 And I think also this language here, this edition
5 is if they have concerns and they move forward with a third
6 party audit in which, you know, experts and measurement and
7 accounting will be looking at that, they are the ones who
8 will be looking at this and need to make sure that that
9 methodology can be confirmed, it was the right method or one
10 of the right methods used to calculate that volume.

11 Q. (Unclear) for examples of methodologies that can
12 be independently verified.

13 (Reporter asking for clarification due to unclear
14 audio.

15 Q. I had asked the witness for examples of
16 methodologies that can be independently verified.

17 A. Okay. I'll list a couple if that meets -- in
18 EPA's Subpart W language, I think it's 43 CFR 98.233, they
19 list several calculation methods for various sources.
20 That's one area.

21 And there are certain categories within that that
22 industry is comfortable in using in terms of their accuracy,
23 in terms of some of the sources that we are asking around
24 flashing on tanks, especially excessive flashing on tanks,
25 there are multiple modeling techniques, such as third-party

1 proprietary software such as ProMax and EMP tanks which is
2 another -- which are used within the industry and are
3 accurate, and there are certain, you know, manufacturing
4 data for specific sources such as pneumatics that provide
5 you with what normal operating pneumatics operate at.

6 So there are, you know, within -- we did -- we
7 felt like instead of specifying either one set or a
8 smorgasbord of available sources, it was to make sure that
9 whatever methodology they are using someone could
10 independently verify that it's right for the source to be
11 measured and it's, you know, used within the industry and
12 other areas, you know, within oil and gas.

13 **Q. Okay. And Mr. Bolander, are there examples of**
14 **methodologies that cannot be independently verified?**

15 A. I'm trying to think, to be offhand, I think from
16 our listing in the requirements and C-115 B on what we are
17 asking to be reported, you know, most of those, you know,
18 going through that list that remaining are categories that
19 can be verified.

20 In my testimony I talk about categories that were
21 deleted, and the reason being that they were deleted is that
22 there were, you know, there was no accurate methodology to
23 report in most of those cases.

24 **Q. Okay. Thank you, Mr. Bolander. I appreciate**
25 **your testimony today.**

1 MR. BIERNOFF: I don't have any further questions
2 for this witness, Madam Hearing Officer.

3 HEARING EXAMINER ORTH: Thank you very much,
4 Mr. Biernoff. Ms. Fox?

5 MS. FOX: Mr. Baake has some questions.

6 HEARING EXAMINER ORTH: Thank you. Mr. Baake.

7 CROSS-EXAMINATION

8 BY MR. BAAKE:

9 Q. Hello there. Thank you so much, Mr. Bolander,
10 for your testimony. First of all, can you hear me okay?

11 A. Yes, I can.

12 Q. Perfect. Again I really appreciate the testimony
13 and hard work that's gone into this rule. I just have a few
14 questions about initial flowback during completions, and I
15 was wondering if we could pull up Slide 73 from the
16 presentation you gave.

17 A. You want me to pull up 73?

18 Q. Can you do that?

19 MS. POLAK: Mr. Baake, you cut out a little bit.
20 Can you specify which slide, please?

21 MR. BAAKE: 73.

22 MR. AMES: David, can you say what the topic is
23 as well?

24 MR. BAAKE: Initial flowback during completion.

25 MR. AMES: Thank you.

1 MS. POLAK: Give me one second here. Mr.

2 Bolander, make sure I'm on the right slide because our slide
3 numbers are off.

4 THE WITNESS: I'm seeing 76. Do we need to go
5 backwards?

6 MS. POLAK: Correct.

7 THE WITNESS: Slide 78 -- 68.

8 MR. BAAKE: Well, that's what I wanted, so thank
9 you for helping, Tiffany.

10 BY MR. BAAKE:

11 Q. So I wanted to ask you about this bubble here,
12 and it says, the point in the process at which venting or
13 flaring natural gas can be considered waste, and it
14 indicates that it's at separation flowback and that prior to
15 that it would not be considered waste.

16 I wanted to ask you about that. Yesterday
17 Mr. Lepore made a comment that I thought was really
18 interesting and helpful which is that the type of waste
19 depends on technological context, and that something that
20 might have been considered beneficial use ten years ago
21 today would be considered waste because there are
22 technological alternatives. Do you agree that's an
23 appropriate way to think about waste?

24 A. Yes.

25 Q. Very helpful. So would you agree that if there

1 are technologies that could reliably eliminate the need to
2 vent gas during the initial flowback then maybe venting gas
3 during that stage would be appropriately considered waste?

4 A. I think we need to consider and look to
5 definition of waste. And if there is a safe way of
6 collecting the gas from the initial flowback, has it been
7 treated and can it be used for beneficial use and/or sales.
8 And in this -- in the case you are describing, the answer is
9 no.

10 Now, is it an emission source? Yes. However,
11 you know, with what we are tasked with regulating today is
12 waste. And that's why in my testimony, you know, when I
13 talk about the separation flowback stage, I really wanted to
14 link it to our equipment performance standard in "E" on
15 designing that separation equipment to where that initial
16 flowback stage would be the shortest period possible.

17 Because once you hit separation stage, that's
18 effectively what's considered -- that's the first stage of
19 treating a full well stream. You now have the ability to
20 separate fluids and such, and at that point in time, you
21 know, then that gas can be used, you know, for beneficial
22 use or for sales or what have you. But prior to that, if
23 it's still, you know, from a, from a beneficial perspective,
24 today it's not considered waste or -- yes.

25 Q. I think that --

1 HEARING EXAMINER ORTH: Mr. Baake, we are having
2 the same issue with the garbling at the very beginning of
3 when you speak. So if you would either pause or just say a
4 word or so to settle the audio down.

5 MR. BAAKE: Okay.

6 HEARING EXAMINER ORTH: Thank you.

7 Q. Thank you, Mr. Bolander, I think I understand
8 where you are coming from on that point and that this is not
9 set in stone, as it were, but this is sort of your
10 understanding based on, you know, what can be put to
11 beneficial use at this point. And others may present
12 evidence that suggest that where that point begins can be
13 different.

14 Can we go to slide --

15 MR. AMES: Objection. Counsel is making a
16 statement about his intended testimony. He isn't asking the
17 witness a question.

18 HEARING EXAMINER ORTH: That objection is
19 sustained. Please carry on, Mr. Baake.

20 Q. Can we go to Slide 83, and just in case the
21 question (unclear) the slide that says that certain events
22 are too small to measure -- I believe it's this one, yeah.

23 So, Mr. Bolander, I think I heard you when you
24 were talking about this slide. Sort of maybe walk back or
25 modify what this slide itself says about completions. I

1 think I heard you say that all of the slide says that
2 volumes prior to separation are too small to measure, I
3 think you said that sometimes that's the case, not always
4 the case, is that -- am I recalling that correctly?

5 A. Yes.

6 Q. And so in some cases those emissions could be
7 significant, but I think you said that there are other
8 concerns of reporting it correctly in terms of the flowback
9 being erratic and that sort of thing. Is that again --

10 A. Yes. That is correct. Would you like me to
11 expand?

12 Q. No, I appreciate that. I just wanted to make
13 sure I got that clear. Are you aware of any studies that
14 actually quantify the emissions at this stage of flowback?

15 A. Yes, I am.

16 Q. Could you -- are there any that you can provide
17 us with right now or kind of give us a sense of what those
18 are?

19 A. A lot of these original studies, this was, you
20 know, back during the time when I was at Southwestern
21 Energy. And during the time frame of Quad O and Quad O A
22 being contemplated and there were studies in which they were
23 reporting volumes during this stage using choke
24 calculations, specifically the choke calculations in EPA's
25 documents.

1 The issue with either the results of those
2 studies and/or any of that was during this phase, if you can
3 think of it as prior to separation, so you have full well
4 strength, so you've got everything flowing through that
5 choke, and EPA's formula is for single phase flow, when
6 you've got multi phase flow going on, so inherently it's the
7 wrong equation being used.

8 So whatever results come out of that -- those
9 studies, and it's been, you know, years since I have seen
10 them, you know, I would -- you know, I have concerns with
11 the results that came out of those studies because the
12 results are incorrect utilizing that equation for those
13 conditions.

14 **Q. Thank you. That's helpful. So I take it you're**
15 **not aware of studies that you would consider accurate that**
16 **apply methodologies in your (unclear) you think is**
17 **forthright; is that correct?**

18 A. Correct. During that time frame, you know, most
19 of the multiphase flow are empirically based, based on
20 specific geographic areas. I know there were several
21 research groups within specific companies that were working
22 this issue because we understood what it was, but as far as
23 I know, I'm not sure if the nut has been cracked.

24 **Q. Thank you so much. This feedback is -- takes a**
25 **little bit of getting used to. I have a couple more**

1 questions, and I really do appreciate it because it's
2 illuminating.

3 So Mr. Feldewert asked you about Colorado's new
4 regulations which do require capture during initial
5 flowback, and I think you said you're aware of those
6 regulations. Is that correct?

7 A. I am correct. Yes, sorry.

8 Q. I'm just waiting to give the -- so the fact that
9 Colorado went ahead and adopted those regulations suggests
10 that at a minimum those regulators feel the potential
11 emissions from this stage are significant. Would you agree
12 with that?

13 A. They realized it is a concern. The original
14 regulation was promulgated by their environmental group to,
15 you know, regulate emissions.

16 Q. Appreciate that response. Did you consult or did
17 anyone else at OCD consult with the Colorado regulators to
18 learn more about the approach that they adopted on that
19 issue, on this rule?

20 A. No one that I was aware of.

21 Q. And how about, were there any other entities
22 (unclear) that you spoke to about whether that approach
23 might be workable?

24 A. I'm aware that, you know, in reading that, what
25 the rule was, their actual rule language, the rule language

1 that's found in I guess Rule 7 of the Air Division, and, you
2 know, I made, obviously, cursory calls, found that in right
3 conditions it can be achieved, but not in all, you know,
4 flowback types.

5 I know that, you know, that Oil & Gas Commission
6 did reference it in the rule making it a regulation.
7 However, in their, you know, statement of basis, one of
8 their primary reasons was not to create any confusion with
9 the rule that was recently put in place by the Air Division,
10 but their primary concern was to make sure that the
11 separation phase was moved to sales as soon as possible.

12 **Q. Okay. Thank you so much. Mr. Bolander, I don't**
13 **think I have any further questions.**

14 A. Thank you.

15 HEARING EXAMINER ORTH: Thank you, Mr. Baake.
16 Ms. Paranhos, do you have questions of Mr. Bolander?

17 MS. PARANHOS: Thank you, Madam Hearing Officer.
18 I have no questions for Mr. Bolander.

19 HEARING EXAMINER ORTH: All right, thank you.
20 Mr. Ames, do you -- I'm sorry, hold on. Commissioner
21 Kessler, do you have questions of Mr. Bolander?

22 COMMISSIONER KESSLER: Thank you. All of my
23 questions have been addressed.

24 HEARING EXAMINER ORTH: Thank you. And Madam
25 Chair?

1 CHAIRWOMAN SANDOVAL: I do have some questions.
2 Bear with me again while I go through my notes here. Can
3 you hear me okay, or are you getting that feedback?

4 THE WITNESS: I can hear you fine.

5 CHAIRWOMAN SANDOVAL: All right. I will start
6 with the same questions as I have with some others. Do you
7 support this regulation?

8 THE WITNESS: Yes, I do.

9 CHAIRWOMAN SANDOVAL: Do you feel like this has
10 been, from your experience past, present, future -- well,
11 not future -- past present, a collaborative process?

12 THE WITNESS: Yes I do. You know, I will re-echo
13 what Matt said. To see the changes since July means we have
14 listened and put forth a good rule.

15 CHAIRWOMAN SANDOVAL: Thank you. All right,
16 where to start here. I think -- so yesterday there was a
17 little bit of concern about -- so I don't remember the exact
18 citation, that would have been helpful -- basically where
19 production operators have four hours to shut in their wells
20 if there is some sort of midstream upset. And basically
21 there's a, for lack of a better term, a three, four hours
22 where they can vent and/or flare and then after that if they
23 haven't taken action, it will count against them. From your
24 operational experience, do some operators have mechanisms to
25 shut in wells remotely?

1 THE WITNESS: In some particular cases, yes, but
2 not all.

3 CHAIRWOMAN SANDOVAL: Okay. So it would sort of
4 be a mix of -- of whether or not that four hours might be
5 appropriate?

6 THE WITNESS: Yes. It would be a mix on, do you
7 have the ability to remotely shut in, the ability of how
8 many wells you would have to physically shut in as well.

9 CHAIRWOMAN SANDOVAL: Do you feel like the four
10 hours is appropriate, or is there maybe a better
11 recommendation?

12 THE WITNESS: I feel like that four hours is a
13 starting point. I can see, you know, looking at, you know,
14 trying to look at it from a time line, you know, from
15 initial notification, to the notification to your lease
16 operators, to their ability to, you know, from a -- if it's
17 from a remote operation, then, yes, four hours is
18 sufficient.

19 But for someone to physically be called at a
20 moment's notice to, you know, start shutting in multiple
21 wells, you know, even if they are relatively close together,
22 four hours is an extremely tight schedule to meet that and
23 still be doing it proactively.

24 CHAIRWOMAN SANDOVAL: Okay. Do you think it
25 would be more appropriate to have, say, two categories, one

1 category of time frame for operators who have their wells on
2 a scada system versus a time frame for operators who don't?

3 THE WITNESS: Yes. I mean they still would have,
4 even the wells on scada, they do have time to evaluate what
5 that well's condition is before they do a 100 percent remote
6 shut in, you know. But for people that have operators that
7 have to physically, you know, go to the field to shut in
8 wells, I would recommend a longer time period.

9 CHAIRWOMAN SANDOVAL: Okay. Thank you. Maybe
10 let's wade through some of the measurement questions which I
11 think have been asked in the rules. All right. F.2, a
12 little bit -- so in F.2 it reads basically after -- oh,
13 actually I'm looking at maybe a slightly older version there
14 is an errata. I think the errata said something similar.
15 The operator shall install equipment to measure the volume
16 of natural gas vented or flared. What's the feasibility to
17 install measurement equipment for vented gas? I'm thinking
18 of situations like a PRB. I can't recall in any of my
19 operational experiences seeing a meter on a PRB or something
20 of the like. Do you have any experience or insight you
21 could share on that?

22 THE WITNESS: On the language, you know, we put
23 in, Adrienne, we took -- I'm sorry, Madam Chair -- we tried
24 to be consistent with using vented and flared, and I agree
25 with you, you know, what we are dealing with, with F.2 is

1 predominantly flared volumes, and that's why we were --
2 where we step back in F.3 and, you know, changed our
3 citation to be more consistent with flared, flare gas.

4 However, I will say where you may see some
5 metered volumes it wouldn't be of vented gas, but in large
6 facilities with lots of fire equipment, you may be measuring
7 similar issues with metered equipment, but as far as vented
8 gas, I agree with you, vented gas is typically not metered.

9 CHAIRWOMAN SANDOVAL: I'm just trying to think.
10 Would that then be captured -- so say the language was
11 vented or flared to keep it consistent, would then not
12 operational and feasibility be captured in 5 where it says
13 if metering is not practicable due to circumstances such as
14 low flow rate or low pressure of venting and flaring do you
15 think those feasibilities would be captured then under 5?

16 THE WITNESS: That was the intent of creating 5.

17 CHAIRWOMAN SANDOVAL: Okay, now sort of on 5, I
18 guess my concern -- or do you have any concerns here that,
19 that 5 could be taken advantage of in any sort of way by
20 operators?

21 THE WITNESS: In my experience, no, you know,
22 because we are looking at, you know, volumes. You know,
23 when I kind of go through a facility, you know, from
24 separator on, one of the main volumes we wanted to measure
25 specifically on new facilities is associated gas coming off

1 a separator or heater treaters, or depending on the volume
2 is it capable, something off of a vapor recovery unit. But
3 outside of that, all the other volumes going throughout the
4 system that would be considered a low pressure venting event
5 would fall under 5 as being, you know, required for
6 calculation purposes.

7 CHAIRWOMAN SANDOVAL: Okay. And you didn't
8 directly testify about this, so if you are not the one who
9 addressed this, just let me know. I don't know if you have
10 seen the proposal from EDF and Climate Advocates, they in
11 both accounts -- I'm trying to pull it up now -- seem to
12 want to eliminate the GOR options -- so I've have got 18
13 binders here -- so eliminate 6, I believe, in the draft that
14 says, for a well that does not require measuring equipment,
15 the operator shall estimate the volume of venting and
16 flaring natural gas based on the result of an annual GOR
17 test for that well reported on form C-115 to allow the
18 Division to independently verify the volume rate an
19 (unclear) of the flared natural gas.

20 And I don't, I don't know the logic here, but I
21 guess I was hoping you could sort of illustrate why you
22 think the leaving that language in there is appropriate,
23 leaving that GOR option in.

24 THE WITNESS: For one, you know, this type of
25 methodology of calculating the gas volume from oil wells,

1 you know, that produce associated gas is being performed in
2 the industry in all the regulatory basins for years. So
3 it's, for one, it's an operation that is, you know, that
4 industry is comfortably aware of.

5 They have processes in places, and what that
6 means is that (unclear) location -- this would be the case
7 where you have multiple wells coming into a facility in
8 which one, you know, one separator, as an example, is used
9 on a day-to-day basis, and they may have a separate second
10 separator on location that they can isolate individual wells
11 to perform the GOR test where they measure the gas volume
12 coming from that well that they are testing and then file
13 the form.

14 For companies that don't have the ability to have
15 a test separator on location, then they were allowed a
16 rental or test separator that they may have and move around
17 the field. So it's way of doing it, it's a practice of
18 doing it. It's understanding the gas oil ratio is, you
19 know, from a reservoir perspective, is a way of
20 understanding how my reservoir is reacting, is that GOR
21 changing. At some point in time at the decline of that well
22 that GOR will remain stable without any changes. So this is
23 a valid methodology of determining gas volume from normally
24 low GOR type wells.

25 CHAIRWOMAN SANDOVAL: Okay. So you feel like

1 leaving those in is important, is an important option?

2 THE WITNESS: Yes, I do.

3 CHAIRWOMAN SANDOVAL: Okay, thank you. Let me
4 see if I have any more measurement questions. I think
5 that's all on the measurements.

6 So it looks like from -- I can't remember again
7 where it was, but we seem to have excluded the language
8 about the NMED authorization or the permit or something of
9 the sort. I know it was explained, I just -- I guess I'm
10 just a little concerned or confused how we are going to make
11 sure that there aren't any issues or conflicts that arise.

12 Can you just elaborate a little bit more on that
13 for me, please?

14 THE WITNESS: I may not be the right person to
15 explain that aspect. This was kind of a change late in the
16 process, post the December 17 submittal. How it arose, we
17 originally had language in there, stakeholders -- other
18 stakeholders had recommended that that language be expanded
19 somewhat to, to include other regulatory bodies.

20 We resubmitted that language to NMED, you know,
21 for their review, and my understanding from not being
22 intricately involved was they read the language, not just
23 the new language, but even the original language and didn't
24 see a need for it.

25 So, you know, I would have to say, Madam Chair,

1 this is beyond my technical explanation on this one.

2 CHAIRWOMAN SANDOVAL: Okay. Would Mr. Powell be
3 appropriate, maybe, to ask questions about that?

4 THE WITNESS: Yes. Mr. Powell may be the person
5 to ask.

6 CHAIRWOMAN SANDOVAL: Okay. I will reserve those
7 for him.

8 Sort of while we are on the NMED train of thought
9 here, so I think Mr. Feldewert asked some questions about
10 NMED's current rules. Maybe the question that should be
11 asked is, was the intent to try to match NMED's proposed
12 updated rules on the AVO time frame?

13 THE WITNESS: Yes. What we wanted to do, we
14 wanted to match the language, and, through our collaborative
15 effort, the time frames.

16 CHAIRWOMAN SANDOVAL: I just am looking at their
17 draft language -- and you don't have this up, I can just
18 read it to you -- in 20.2.15.16, standards for equipment
19 leaks in the C, it says basically, owners operators shall
20 conduct an audible visual and (unclear) inspection, it lists
21 a handful of equipment, at least weekly, is what it says.
22 So you are saying that their proposal and those time frames
23 here matches and was tried to (unclear)?

24 THE WITNESS: Yes.

25 CHAIRWOMAN SANDOVAL: Okay. And I don't know if

1 you alluded earlier, maybe Mr. Powell is more appropriate
2 for this, but this wasn't envisioned in drafting this that
3 you wouldn't actually have to go out there and do AVO twice
4 in one week. Like the same AVO that is checking the box for
5 the Division is also checking the box for NMED?

6 THE WITNESS: Yes. The intent was to streamline
7 the process.

8 CHAIRWOMAN SANDOVAL: And that there was not like
9 a specific OCD form that had to be filled out, for example,
10 if NMED had a form that would count likely for OCD's
11 requirement?

12 THE WITNESS: That was the discussion we had with
13 our work group.

14 CHAIRWOMAN SANDOVAL: So that it would not be
15 duplicative?

16 THE WITNESS: Correct.

17 CHAIRWOMAN SANDOVAL: Okay. Based on your
18 operational experience, does a week -- or maybe how often
19 are operators out on site? Would the week time frame force
20 them to go out there more than normal?

21 THE WITNESS: For wells that meet that category,
22 you know, where we have our crossover point of 60 MCF a day,
23 those wells will be visited more frequently than wells that
24 fall below that.

25 In my experience, weekly is an achievable time

1 frame. And for higher rate wells, I would say that many of
2 those are, if not visited daily, are visited three to four
3 times a week.

4 CHAIRWOMAN SANDOVAL: Okay. So that doesn't seem
5 to force operators to go out there when -- when they're not
6 already, it would just conform to what their normal schedule
7 was?

8 THE WITNESS: Yes.

9 CHAIRWOMAN SANDOVAL: Okay. What about for the
10 wells that are on the monthly frequency, does that seem
11 appropriate? Those are the lower flow wells, I think, the
12 stripper wells, those are required to be done monthly for
13 AVO. Does that time frame seem appropriate to you?

14 THE WITNESS: I think it's very appropriate for
15 producing wells to visit it at least monthly if you are a
16 prudent operator.

17 CHAIRWOMAN SANDOVAL: Okay. Thank you. All
18 right. So maybe let's jump into some of the midstream
19 questions.

20 I was just going to read something to you. Are
21 you -- I think -- so -- well, actually let me step back.
22 I think you said something yesterday in your kind of initial
23 testimony that OCD doesn't currently regulate midstream
24 operations. Have you read all of OCD's rules?

25 THE WITNESS: Have not, sorry. I've become more

1 familiar than I thought I would be, but no I have not.

2 CHAIRWOMAN SANDOVAL: Would you be surprised to
3 learn there are multiple situations where OCD regulates
4 midstream operations right now, in particular, maybe
5 19.15.18 or Part 29, there are multiple places where OCD
6 currently regulates midstream operations?

7 THE WITNESS: Thank you. It's nice to know this
8 isn't original territory.

9 CHAIRWOMAN SANDOVAL: And again, you probably
10 have not read all of OCD's statutes. I have a very large
11 binder that's very chunky.

12 Are you familiar in particular with 70.2.12(A)(4)
13 which states, basically -- I won't read the whole thing --
14 it gives OCD the authority to examine, check, test each oil
15 and gas well, tanks, plants refineries and all means and
16 modes of transportation and equipment. Were you aware of
17 that statute?

18 THE WITNESS: I was not.

19 CHAIRWOMAN SANDOVAL: In your experience for oil
20 and gas operations, is one mean or mode of transportation a
21 pipeline?

22 THE WITNESS: Yes.

23 CHAIRWOMAN SANDOVAL: So knowing that, does it
24 seem totally within OCD's statutory authority to regulate
25 pipelines?

1 THE WITNESS: Yes.

2 CHAIRWOMAN SANDOVAL: Okay, thank you. From your
3 operational experience and background, what sometimes
4 happens or what can happen if a midstream gathering system
5 goes down, what can be the ramifications on the production
6 operations?

7 THE WITNESS: Well, I mean, depending on the size
8 of the system and the effect, you know, on a smaller system
9 when a midstream operation goes down, you know, and for
10 example shuts in, it will increase the line pressure on the
11 upstream side to the point to where the wells would, would
12 either be, you know, go to flare if there's a system in
13 place and where wells automatically go to a flare, or it
14 would increase the line pressure where the wells will be
15 physically shut in.

16 For larger gathering systems, it will be
17 different throughout the upstream side. Some would result
18 in shut-ins and some will just see a small line pressure
19 change that may not have the effect, you know, their well
20 from a venting and flaring perspective, it just may increase
21 their line pressure that it causes their wells, for example,
22 to load up, and that would be the result of it.

23 CHAIRWOMAN SANDOVAL: So -- oh, the feedback just
24 happened. Is everybody else getting that, or just me?

25 HEARING OFFICER ORTH: It was just a moment at

1 the beginning. Now you're fine.

2 CHAIRWOMAN SANDOVAL: Okay. So what I'm hearing
3 is if there are issues on the midstream side, it can force
4 the production operations sometimes to have to flare all of
5 that gas because there is nowhere else for it to go?

6 THE WITNESS: Correct.

7 CHAIRWOMAN SANDOVAL: And shut in a well.

8 THE WITNESS: Correct.

9 CHAIRWOMAN SANDOVAL: So, okay. Do you believe
10 it's an important part of managing flaring in this state to
11 also manage the midstream operations because they can have
12 broader ramifications?

13 THE WITNESS: Yes, I do. I thought it was key
14 that we added the section on reporting of any of their
15 events to affect the upstream side positively instead of
16 negatively.

17 CHAIRWOMAN SANDOVAL: Okay, thank you. (Pause.)
18 Sorry, I'm just wading through my notes here.

19 All right. On the midstream side in Part 28 --
20 where did it go? I think it's 28.8.C now 2 -- so, for
21 example 2.C, so 8.B.2.C, and I'm basically -- and this
22 sounds like maybe it was -- sorry, let me (unclear). So 2.C
23 basically gives an exception you can vent or flare during
24 normal operations of a dehydration unit or amine unit.

25 Is that -- just can you verify for me, is that

1 still counted against, for example, your gas capture
2 percentage? Like you would still have to calculate how much
3 was vented or flared or measured, whatever that upper grid
4 mechanism is, and that venting and flaring would still, say,
5 count against the gas capture percentage? Is that how that
6 works.

7 THE WITNESS: What this was to address is, you
8 know, normal venting that occurred from say a dehydration
9 unit.

10 CHAIRWOMAN SANDOVAL: Yes.

11 THE WITNESS: And to account for that, that
12 effect. These are typically, you know, emission related
13 events and we wanted to make sure that normal operations
14 would be counted -- or not counted, they would be considered
15 exceptions.

16 CHAIRWOMAN SANDOVAL: So I'm trying to (unclear)
17 they are considered an exception in the sense that that
18 operator or that equipment is designed to vent at times, and
19 so they are given an exception to be able to vent and not be
20 out of compliance; correct?

21 THE WITNESS: Correct.

22 CHAIRWOMAN SANDOVAL: But are they given -- is
23 that venting that's designed given a pass from counting
24 against their gas capture calculation? Does that make
25 sense, what I'm saying?

1 THE WITNESS: Yes. If it is part of the normal
2 operation, it is not counted on their gas capture. If it is
3 excessive due to some operational concerns, the way we are
4 handling it in the reporting section is we have -- because,
5 you know, it gets to the point you know, Madam Chair, to
6 where, you know, we can ask -- we could have probably come
7 up with 30 categories that 90 percent of the time are going
8 to be zero, but we gave a category of "other," and, you
9 know, this would fall into the case where equipment that's
10 not operating properly that has excess venting beyond its
11 design, those volumes would be considered waste, so
12 therefore they would be counted in the reporting section
13 under that section and then counted against their gas
14 capture.

15 CHAIRWOMAN SANDOVAL: Okay. But the normal
16 operations would not; correct?

17 THE WITNESS: Correct.

18 CHAIRWOMAN SANDOVAL: Okay. I think you
19 mentioned one of the categories that was deleted was on
20 pilot and purged gas because it should be beneficial?

21 THE WITNESS: Yes.

22 CHAIRWOMAN SANDOVAL: You consider it a
23 beneficial use. Is that now wrapped up -- is there another
24 category that gets wrapped up in. Was it consolidated or
25 just deleted?

1 THE WITNESS: Consolidated. For here it's
2 consolidated.

3 CHAIRWOMAN SANDOVAL: Okay. I think that may be
4 my last question. Thank you, Mr. Bolander.

5 THE WITNESS: Thank you, Madam Chair.

6 HEARING EXAMINER ORTH: Thank you, Madam Chair.
7 Commissioner Kessler, do you have a question of Mr. Bolander
8 at this time?

9 COMMISSIONER KESSLER: If you don't mind. I had
10 wanted to hear testimony related to 19.15.27.8.G.4, which is
11 the royalty reporting or reporting requirements for royalty
12 owners on vented and flared gas. And specifically I would
13 like to hear from the Division's perspective how the
14 Division believes that that requirement prevents waste.

15 Mr. Bolander, I don't know if you are the correct
16 person to ask those questions, but I didn't want to forego
17 the opportunity.

18 THE WITNESS: Right. I may not be the right
19 appropriate person to discuss this. You know, I do know
20 that the intent was that, you know, as a royalty owner, you
21 have a vested interest because your, you know, your royalty
22 check that you get paid on is based on what gets sold.

23 And if there is gas that is wasted that you don't
24 have the opportunity to obtain a value on, then, you know,
25 the intent was, was that gives that royalty owner the

1 understanding that he is missing out, or that person is
2 missing out on an opportunity for additional revenue.

3 So the intent was to give them that information
4 to give them the opportunity to, you know, affect the future
5 if there is an opportunity.

6 COMMISSIONER KESSLER: Okay. Back to the
7 operator (unclear) compliance through contractual
8 obligations, I guess?

9 HEARING EXAMINER ORTH: Commissioner Kessler,
10 would you repeat that, please? It was hard to hear.

11 COMMISSIONER KESSLER: Is this a mechanism, Mr.
12 Bolander, that the royalty owner would be able to exert
13 contractual pressure or pressure through their agreement
14 with the operators to be able to obtain more, more gas or
15 less venting and flaring?

16 THE WITNESS: That is beyond my expertise. I
17 really would hate to comment on that, but I would assume
18 that would be the mechanism, but it's beyond my expertise to
19 answer appropriately.

20 COMMISSIONER KESSLER: Okay. Thank you.

21 HEARING EXAMINER ORTH: Is that all, Commissioner
22 Kessler?

23 COMMISSIONER KESSLER: Yes.

24 HEARING EXAMINER ORTH: Thank you very much. Mr.
25 Ames, do you have any follow-up with Mr. Bolander?

1 I can't hear you.

2 MR. AMES: Can you hear me.

3 HEARING EXAMINER ORTH: Yes, now I can.

4 MR. AMES: I was actually not going to say
5 anything. No, I don't think I have any redirect for Mr.
6 Bolander. I would ask that the witness be excused.

7 HEARING EXAMINER ORTH: All right. Thank you
8 very much, Mr. Bolander, for your testimony on your direct
9 and cross, you are excused.

10 THE WITNESS: Thank you, Madam Hearing Examiner.

11 HEARING EXAMINER ORTH: So Mr. Ames, if you
12 would -- we are now just several minutes from noon. And we
13 have been going not quite 90 minutes -- I guess about 90
14 minutes since our last break, so I think a lunch break would
15 be appropriate. I know that you have one more witness,
16 Mr. Powell; right?

17 MR. AMES: That's right.

18 HEARING EXAMINER ORTH: All right. Madam Chair,
19 do you have any guidance for us on how long a lunch break we
20 would need to take? Any chance we could shorten it a little
21 today?

22 CHAIRWOMAN SANDOVAL: I muted myself. I do not
23 have limitations today that I had yesterday and could do a
24 shorter break, maybe 30 or 45 minutes instead. Commissioner
25 Kessler, do you have any limitations?

1 COMMISSIONER KESSLER: I don't have any today.

2 HEARING EXAMINER ORTH: All right. So let's come
3 back at 12:45 to squeeze a little bit more out of the
4 afternoon.

5 CHAIRWOMAN SANDOVAL: Perfect.

6 HEARING EXAMINER ORTH: Thank you all. Let's
7 come back at 12:45.

8 CHAIRWOMAN SANDOVAL: Thanks.

9 (Lunch recess taken. The proceeding resumed as
10 follows:)

11 COMMISSIONER ENGLER: This is Tom Engler. I'm
12 not sure of my bandwidth, so I am not putting my video on,
13 but I'm here.

14 HEARING EXAMINER ORTH: All right. Thank you
15 very much. When we broke for lunch at noon, we had just
16 finished the direct and cross-examination of the Division's
17 third witness, and so now we're going to move on to their
18 fourth witness, Mr. Powell. Mr. Ames?

19 CHAIRWOMAN SANDOVAL: Could we discuss schedule,
20 maybe, since Dr. Engler is here?

21 HEARING EXAMINER ORTH: Okay, sure. We can do
22 that before we hear from Mr. Powell. Madam Chair, do you
23 have some guidance for us?

24 CHAIRWOMAN SANDOVAL: I think I would love to
25 hear what the parties think in terms of timing and maybe how

1 we make things work in the next six days, at least to finish
2 the testimony side of it. You know, Session does start the
3 week after, but, you know, I think we want to continue with
4 this and not take long breaks until say after Session.

5 We need to finish with this expeditiously, so in
6 the chance that we can't finish by the end of next week,
7 we're going to have to continue to run times the following
8 week until this done. But it won't be postponed for long
9 periods of time.

10 HEARING EXAMINER ORTH: All right, thank you.
11 Mr. Ames, would you like to begin with your observations or
12 suggestions?

13 MR. AMES: Sure. Thank you, Madam Hearing
14 Officer, Madam Chair, Members of the Commission. Eric Ames,
15 counsel for OCD. The OCD supports the Commission's
16 objective of completing the hearing by January 15th. With
17 respect to OCD's case, we anticipate completing our direct
18 testimony today.

19 We expect to have some cross of other witnesses,
20 but not too extensive, and we are prepared to live with some
21 guidelines or some limitations on the length of cross if
22 that would facilitate planning for our January 15th end to
23 the hearing itself.

24 I do anticipate that OCD will want to provide
25 some rebuttal testimony. In our direct examination, we have

1 steered clear of commenting on other parties' proposals that
2 we did not accept into our proposed version of OCD Exhibits
3 2A and 3A.

4 If the parties press their arguments for those
5 changes, then OCD will have to respond through rebuttal.
6 But at this point it is not possible to estimate with any
7 precision how much rebuttal we'll need to do because it
8 depends on what the other parties choose to present.

9 Thank you.

10 HEARING EXAMINER ORTH: Okay. Thank you, Mr.
11 Ames. Mr. Feldewert, would you like to weigh in?

12 MR. FELDEWERT: Yeah, I mean, first, Mr. Ames'
13 comment, I think the Division has been apprised of the
14 party's proposed modifications for quite some time now. So
15 I am somewhat surprised to hear that they have not -- that
16 they have chosen not to address those during their case,
17 and, instead, rely on some rebuttal for an unknown period of
18 time. That's surprising.

19 Secondly, NMOGA shares goal of getting this
20 finished by next Friday, and although I think we all
21 recognized that trying to get this many witnesses in in a
22 two-week period was going to be difficult, and then that
23 two-week period became eight-and-a-half days, which even
24 exacerbated that, but we're willing to do whatever the
25 Commission thinks is appropriate to get this accomplished.

1 If that means working Saturday and Sunday, we are willing to
2 do that. If that means starting earlier in the morning and
3 going later at night, we're willing to do that.

4 HEARING EXAMINER ORTH: Okay. Thank you, Mr.
5 Feldewert. Mr. Biernoff -- oh, I did see Ms. Fox. Let me
6 see if Mr. Biernoff -- oh, no. You know what? I think he
7 said that someone else from the office would be covering the
8 first part of this afternoon, so let's go to Ms. Fox.

9 MS. FOX: I'm not quite sure what was said, but
10 we're talking about timing for the rest of the hearing;
11 correct? And so anything I should know before I start that
12 was said so I can get oriented here?

13 HEARING EXAMINER ORTH: Nothing that you wouldn't
14 have expected, Ms. Fox. Both the Division and NMOGA share
15 the Commission's goal of getting the hearing wrapped up. I
16 talked about the challenges of doing that. Mr. Ames,
17 apparently, believes he may have some rebuttal, and NMOGA is
18 clearly willing to have longer days.

19 MS. FOX: Okay. Let's see, a couple of things.
20 One, our main concern is not having our direct case cut
21 short. We had estimated in our prehearing statement almost
22 nine hours of direct. I think we overestimated on that. We
23 were trying to not underestimate. I think it will be closer
24 to seven-and-a-half or eight on direct.

25 We have 11 witnesses. I have not communicated

1 with my witnesses, a number of whom have small children, a
2 number of whom are on the East Coast, about going late.
3 That could be a problem for my witnesses. We would prefer
4 not to take our witnesses out of order. We prefer to be
5 able to present our direct case sort of with the facility
6 that OCD has been able to without inconveniencing our people
7 who have, like I say, young children and who are, I think,
8 inconvenienced enough right now during COVID. So those are
9 our concerns. I personally don't mind going late for, say,
10 NMOGA witnesses in evening, I can do that, but I'm a little
11 bit worried about asking our witnesses to do so, but I would
12 do so if that's what the Commission wants.

13 HEARING EXAMINER ORTH: Thank you for that.

14 Ms. Paranhos, anything to add?

15 MS. PARANHOS: Thank you, Madam Hearing Officer,
16 Commissioners. We, EDF also does support getting this,
17 getting the testimony done by the end of next -- by the end
18 of the 15th. The OCD has actually made some changes to its
19 most recent rule that adopted some of the suggestions, and
20 so due to that, I think we can reduce our estimated
21 testimony time by some amount, provided that other parties
22 agree with those (unclear) editions.

23 So I will endeavor to work with the other parties
24 and make sure that everyone supports those revisions. If
25 there's not support by all parties, then we may need to

1 spend some time on them, but I'm hoping that we can get
2 party support for those (unclear) editions.

3 And certainly we are open to going later if
4 that's convenient for the Commission and the other parties
5 are starting earlier. I also have a witness on the East
6 Coast as well, it's in Central Time, so obviously working
7 with everyone's schedules can be challenging, but I'm happy
8 to do whatever we can to get this thing done on time. And I
9 guess I would just, you know, underline what Ms. Fox said
10 this morning and what I said this morning, which it does
11 seem to me that cross is a tool that can be used in limited
12 circumstances to help clarify or with additional testimony
13 from the witnesses, but it doesn't seem like it should be
14 used to put on a party's direct case, and all parties have
15 opportunities, ample opportunities with multiple witnesses
16 to do so, so I could see real reasons for limiting
17 cross-examination in the interest of making sure we get
18 through with this in the time that we have set sight for.

19 HEARING EXAMINER ORTH: Thank you, Ms. Paranhos.
20 So the cross-examination, for example, this morning I
21 thought was entirely appropriate, and I do listen for, for
22 example, for repetitive questions or questions outside the
23 scope of a witness' direct, and I'm trying to address that
24 when, when I notice it. So, this is Mr. Kessler?

25 COMMISSIONER ENGLER: This is Tom Engler. May I

1 ask a question?

2 HEARING EXAMINER ORTH: Yes.

3 COMMISSIONER ENGLER: I guess my question is to
4 Madam Chair. Are you worried about -- when we are going to
5 deliberate?

6 CHAIRWOMAN SANDOVAL: Well, that's a whole other
7 can of worms. I'm just talking at this point about
8 finishing up the testimony. I believe what, we have 30
9 witnesses, is that correct, and we have gotten through three
10 and we're on Thursday. So I think right now, I mean, yeah,
11 we're going to have to deliberate at some point, but that's
12 even in addition to what we are talking about now. I think
13 at this point I even would just love to get through
14 testimony by the end of next week.

15 COMMISSIONER ENGLER: Okay. Well, I guess, you
16 know, from my perspective, through next Monday through
17 Friday I would be happy to start early and go late to give
18 everyone due time in the process. Normally I could do
19 weekends, but I cannot this weekend and I cannot next
20 weekend. So I guess to give you my perspective, I would be
21 happy to try to go longer days next week. Thank you.

22 HEARING EXAMINER ORTH: Thank you.

23 Commissioner Kessler, anything to add?

24 COMMISSIONER KESSLER: Going late is tricky for
25 me because I have a new baby, so I can step away at 5:00 and

1 have my (unclear) delivering up options, but going much past
2 5 might be difficult. We had also set aside a couple of
3 days for this deliberation, the week after the 15th. I
4 don't know if we want to discuss using those days for
5 testimony and/or if we want to talk about going through the
6 lunch hour, I'm open to that and can have some flexibility
7 after 5:00, just not as much as I would like to.

8 HEARING EXAMINER ORTH: All right. Madam Chair,
9 what days had been planned for deliberations the week of the
10 18th?

11 CHAIRWOMAN SANDOVAL: Let me look at the
12 calendar. I think normally, if I'm recalling correctly, Dr.
13 Engler's schedule is heavier on the front half than the back
14 half of the week, and so usually Thursdays and Fridays are
15 better on his schedule. I don't know if that's still the
16 case, Dr. Engler.

17 I mean, I can do, I can ultimately do a host
18 whenever next week if need be, if we have to go into the
19 next week. I just would have loved to have finished at
20 least the testimony, because again, we're still going to
21 have deliberations which I expect to take days.

22 MR. AMES: Madam Chair, if I may interject, in
23 order to deliberate, you will need the transcript for the
24 proceeding, the entire proceeding, since one or more
25 Commissioners has or will miss portions of the testimony.

1 CHAIRWOMAN SANDOVAL: Yes.

2 MR. AMES: So there will be a delay, a necessary
3 delay for that as well.

4 CHAIRWOMAN SANDOVAL: I think we expected that,
5 so I think we understand that as opposed to normal, where
6 the Commission finishes one day and/or finishes at 4:00 on
7 one day and starts deliberations at 4:01, it may different
8 this time where there is a longer gap. And because this is
9 so complex, we may look at other options after testimony
10 concludes before we go into deliberations.

11 I don't think we know yet until we get to that
12 point, but I think the issue right now is how do we get
13 through 27 more witnesses in six-and-a-half days. You know,
14 I would say that it was always, from the November 4th
15 hearing on, we set these hearing dates and the first
16 day-and-a-half was always set for public comments, so we did
17 not flip the script here. The script was always the same.
18 That was set at the hearing.

19 HEARING EXAMINER ORTH: All right.

20 MR. AMES: Madam Hearing Officer, Madam Chair, if
21 I might interject a couple of comments at this point. The
22 focus seems to be on the number of witnesses left to present
23 direct. I want to reiterate the OCD's view that rebuttal
24 may very well be necessary. Mr. Feldewert's surprise at my
25 mention of rebuttal is a surprise to me since I expressly

1 advised him that we were not going to comment on NMOGA's
2 proposed changes that OCD was not proposing to accept.

3 And the notion there was that we would want to
4 see what the parties intended to actually present in their
5 cases in chief before rebutting. And then, secondly, we
6 thought it would be unfair to the other parties for OCD to
7 present testimony about changes it did not agree to,
8 proposed by the other parties, before those other parties
9 had a chance it make their own cases.

10 So given that we deliberately structured our
11 direct and told Counsel we were going to structure our
12 direct for the express purpose of not prejudicing their
13 ability to present their cases on changes we did not agree
14 with, we think rebuttal is necessary. Otherwise, the
15 testimony of other parties on those changes will have no
16 other evidence in the record.

17 And I will point out that if we had done our,
18 quote-unquote, rebuttal of other party's proposed changes
19 that we did not accept during our case in chief, we would
20 still be talking to Mr. Lepore today. Instead, we're almost
21 done with our direct case.

22 So that said, I know that earlier Counsel for
23 WELC and EDF argued for the right to present rebuttal, and
24 argument at the time was that that's a matter for the
25 Commission to decide. But if in the hearing we still

1 believe that, if the Commission does not want to hear our
2 rebuttal, it can decide not to. But we were always under
3 the impression that we would be able to make the argument
4 for rebuttal, and since we're talking about scheduling the
5 hearing so that other parties can be heard, it's important
6 that the Commission hear that the OCD, at least, believes
7 that rebuttal, at some level, depending on the cases put on
8 by other parties, will be required to bring a complete and
9 accurate record of the parties' positions. Thank you.

10 HEARING EXAMINER ORTH: Thank you, Mr. Ames. I
11 have found just in my experience that rebuttal is helpful
12 when teeing up a complex rulemaking for a Commission insofar
13 as it allows the parties to help refine their positions.

14 Mr. Feldewert, was that you trying to say
15 something?

16 MR. FELDEWERT: Yeah. And Mr. Ames may very well
17 be correct. I don't remember if we, to be honest with you,
18 Eric, if we had that conversation. I will take your word
19 for it. There's been a lot, as you know, going on for the
20 last couple of weeks with the holidays, so that may very
21 well have occurred. And I certainly understand, you know,
22 the thought process behind it.

23 You know, I can only tell you from experience
24 that when we did rules like this previously, in person, it
25 took a long time; that's just the nature of the game. And

1 now we're trying to do it virtually, and I appreciate the
2 challenge, and we're willing to do whatever we can, but
3 recognize there's only so much you can do.

4 I mean the parties all want to present their
5 cases, they are trying to streamline as much as possible,
6 but it is very, very difficult, as you point out, Ms.
7 Sandoval, to have a complicated rule like this put on
8 properly and effectively when, you know, we have a limited
9 window virtually. But we're willing to try, and, you know,
10 I was hoping maybe we could go this weekend, but if we can
11 go longer hours, let's see if we can get it done.

12 HEARING EXAMINER ORTH: All right. Thank you for
13 that. Oh, Ms. Fox?

14 MS. FOX: Yes, thank you, Madam Hearing Officer.
15 I guess I would like to echo what Mr. Ames said in terms of
16 what his representations were to Counsel and what the
17 discussion was about rebuttal. I do remember that
18 conversation with Mr. Ames.

19 And I also echo Mr. Feldewert's sentiment that
20 the nature of these rulemakings is that it takes a long time
21 and maybe we were too ambitious to think that it could be
22 done in eight-and-a-half days.

23 I remain concerned about our side being able to
24 go in order with our direct case and schedule all of our
25 witnesses, again, who have young children and also who, we

1 have a couple of people on the East Coast. So I am
2 concerned about the imposition on us going late hours, while
3 that did not happen this week. Like I say, I personally can
4 go late hours, and I can go weekends, but I am not -- but I
5 don't know about our 11 witnesses.

6 HEARING EXAMINER ORTH: Thank you, Ms. Fox.

7 COMMISSIONER ENGLER: Madam Chair, this is Tom
8 Engler. Just to say, I guess, Chair Sandoval, I think we
9 did set aside two days, Thursday-Friday, for deliberations.
10 It may be that that ends up being overflow for testimony,
11 and we just need to adjust from there. Other than that,
12 there is Monday, that's Martin Luther King holiday, that's
13 available as also on overflow, I think, I don't know how
14 other parties believe in that, but I can do that, too.

15 But, you know, it may be, as we get to the end of
16 next week, I think everyone deserves the right to have due
17 process and rebuttal, I agree, Mr. Ames, so I don't want to
18 cut anybody short on that, you know, for the time. And so I
19 think if they need more time, we'll just do it. For me,
20 Madam Chair, that's overtime pay.

21 CHAIRWOMAN SANDOVAL: That's good for you, Dr.
22 Engler.

23 I mean, I definitely echo what everybody is
24 saying, I want to make sure that -- this is a very complex
25 rulemaking, we have to make sure that all the information

1 comes out and that everybody has the opportunity to
2 adequately and fully present their case here without getting
3 cut off. I think today has gone smoother than it did
4 yesterday, so that's -- in terms of timing.

5 It's -- what is the option to start earlier? I
6 think, Commissioner Kessler, you have a limit on going
7 later. Is that limitation for earlier as well?

8 COMMISSIONER KESSLER: For me, I mean I'll just
9 be able to, to be here and be listening, but with the video
10 off, because I may or may not have an insider with me here
11 in my house. And I'm also open, and as Dr. Engler pointed
12 out, I'm open on Martin Luther King Day and also the days
13 that we reserve for deliberation.

14 MR. MOANDER: This is Chris Moander (unclear) who
15 actually (unclear) not interjecting thus far. Just a few
16 things to keep in mind, I think the Commissioners know this
17 as well as anybody, not that it impacts on my schedule or is
18 any real importance here. The general session starts the
19 day after MLK Day. I think that's right looking at my
20 calendar?

21 CHAIRWOMAN SANDOVAL: It does, it definitely
22 does.

23 MR. MOANDER: That is an issue that hangs a bit
24 over the continuation. I don't know how -- I know that I
25 will have -- my office has a role of doing bills, some bill

1 work, and we tend to stay pretty busy, so I don't know how
2 everyone else is going to be positioned vis-a-vis the
3 legislature, but I think I would be remiss if I didn't bring
4 that up for consideration here.

5 CHAIRWOMAN SANDOVAL: Oh, yes, I think I am very
6 aware. We have -- there are quite a few things that could
7 impact us during the session that we need to stay on top of,
8 but I mean we also have this, which is very important. So,
9 you know, let's use the time we have now. Maybe we cut
10 lunch, you know, where we can, like we did today. I'd ask
11 that everybody be as, you know, prepared and ready for your
12 turns as possible.

13 You know, I'm -- but if we have to go Martin
14 Luther King Day, that sounds like that's an option for
15 everybody, and then maybe the 21st and 22nd will be the
16 continuation of the testimony.

17 I'm not talking deliberations. There is more fun
18 with that later.

19 HEARING EXAMINER ORTH: And do you think it would
20 be possible to start at 8 in the morning instead of 8:30? I
21 know that we have just one commenter signed up so far at
22 8:30 each of the next couple of mornings. I expect that
23 even to drop off, frankly, so there would be a very brief
24 interruption to do that at 8:30, but we could squeeze
25 another half hour in there. I think most folks are

1 accustomed to beginning their work day at 8.

2 CHAIRWOMAN SANDOVAL: That is fine except for me
3 on the 12th. I had already scheduled that time for some of
4 my, I don't know, daytime work, or now nighttime work, so
5 that's something I cannot move at this point. So with the
6 exception of the 12th, that would work.

7 HEARING EXAMINER ORTH: Well, can we just plan to
8 do it tomorrow morning then and the 11th, and then we'll
9 talk on the 12th to see if it's necessary going forward?

10 CHAIRWOMAN SANDOVAL: And you know what? Even on
11 the 12th, as need be, you guys can start, and I will review
12 the transcripts when I get back.

13 HEARING EXAMINER ORTH: Okay. Just one proposal.
14 It's just based on the minimal number of sign-ups we have
15 for the 8:30 public comment sessions going forward, okay?
16 Oh, Ms. Fox?

17 MS. FOX: If we start at 8 tomorrow morning, did
18 you want Ms. Begay on then? I've communicated to her first
19 8:45, now 8:30. I think I could do it but I'm just not
20 sure.

21 HEARING EXAMINER ORTH: Okay. Maybe check to see
22 if it's okay with her, and if it's not, we'll work in some
23 other business.

24 MS. FOX: Perfect, perfect.

25 HEARING EXAMINER ORTH: Thank you for bringing

1 that up. It would sound flaky to one of witnesses.

2 CHAIRWOMAN SANDOVAL: And then let's plan on 30
3 minutes at max for lunch.

4 HEARING EXAMINER ORTH: Okay. All right. Let's
5 see. So we'll try to squeeze in some more time tomorrow.
6 We could certainly go a little later tonight, and I know
7 that the Commissioners and lawyers and I typically like to
8 have our cameras on, make it clear we are paying attention.
9 I don't think there is any problem with Commissioner Kessler
10 occasionally going off camera, for example, we know she is
11 still paying attention. So if it's okay, maybe we will see
12 if we find a natural stopping point later tonight. Mr.
13 Feldewert?

14 MR. FELDEWERT: Madam Hearing Officer, I don't
15 know this for certain, but I am told that sometimes if you
16 have Webex scheduled for a certain period of time, that
17 there are steps that you have to take to go beyond that,
18 so --

19 HEARING EXAMINER ORTH: Let's ask our expert.
20 Mr. Lamkin?

21 MR. LAMKIN: I couldn't say for certain, but I
22 think at the very least it'll give you a warning before it
23 kicks you off.

24 HEARING EXAMINER ORTH: All right. I have gone
25 beyond and haven't had an issue.

1 CHAIRWOMAN SANDOVAL: I can modify them and it
2 won't modify the link where people join.

3 MR. FELDEWERT: That would be great.

4 HEARING EXAMINER ORTH: Thank you for that, thank
5 you for raising that.

6 All right. So shall we return to the technical
7 presentation and our final OCD witness? Yes?

8 MR. AMES: OCD calls Brandon Powell.

9 HEARING EXAMINER ORTH: Mr. Powell, would you
10 raise your right hand, please. Do you swear or affirm that
11 the testimony you are about to give will be the truth, the
12 whole truth, and nothing but the truth?

13 THE WITNESS: I do.

14 HEARING EXAMINER ORTH: Thank you. Your sound is
15 good, and if you would please spell your last name for the
16 court reporter.

17 THE WITNESS: Powell. P, as in Paul, o-w-e-l-l.

18 HEARING EXAMINER ORTH: Whenever you're ready,
19 Mr. Ames.

20 MR. AMES: Thank you, Madam Hearing Officer.

21 BRANDON POWELL

22 (Sworn, testified as follows:)

23 DIRECT EXAMINATION

24 BY MR. AMES:

25 Q. Good afternoon, Brandon.

1 A. Good afternoon.

2 Q. Could you please state your full name for the
3 record?

4 A. Brandon Powell.

5 Q. And where do you work, Brandon?

6 A. The New Mexico Oil Conservation Division.

7 Q. And what do you do there?

8 A. I am the engineering bureau chief.

9 Q. How long have you been the engineering bureau
10 chief?

11 A. Since November. It's fairly new.

12 Q. But you have been with OCD for a number of years
13 now?

14 A. Correct. I've been with the OCD for almost 15
15 years now.

16 Q. That's quite a long time. Can you give us a
17 sketch of the various positions you've held with OCD, and as
18 you go along, explain what you did and learned in that
19 position?

20 A. Certainly. I'll try to be brief considering the
21 time.

22 I started with the OCD in 2006 as the
23 environmental specialist. I've overseen field environmental
24 concerns, operations, release responses, responses to
25 dangers to human, health and the environment.

1 In 2011 I was promoted to staff manager and
2 inspections enforcement supervisor, which I was in that
3 position for almost eight years, or actually a little over
4 eight years. In that position I overseen the field
5 inspection staff. I also worked reviewing downhole
6 engineering and worked with coordinating the new
7 environmental specialists and other professional, worked
8 with other professionals in the office and filled vacancies
9 as they were vacant. I also drafted enforcement documents.

10 In 2019 I was promoted to the district
11 supervisor. In that position, I overseen all of the
12 district's day-to-day operations and aspects and decision
13 making. I overseen all the professional staff, including
14 the inspectors, geologists, the admin staff, data managers
15 in the district.

16 And then I was promoted to the engineering bureau
17 chief. In summary, I've seen pretty much all of the
18 day-to-day operations of the Division as far as
19 implementation as it goes in the field, including
20 enforcement, inspection protocols, those kind of things.

21 **Q. Thank you, Brandon. So over the course of your**
22 **years of service to the OCD, have you learned quite a bit**
23 **about business practices within the Division?**

24 **A. I have. The business practices, the rules, how**
25 they apply, all of those aspects.

1 **Q. You understand the various forms that OCD**
2 **provides to operators?**

3 A. For the majority, yes. I haven't dealt with all
4 of them, but I've dealt with the vast majority of them.

5 **Q. Are you familiar with how forms are created for**
6 **operators to use?**

7 A. I am.

8 **Q. Are you familiar with how forms are processed?**

9 A. I am. I've been involved in both the creation
10 and the processing of multiple forms.

11 **Q. Are you familiar with the databases that OCD uses**
12 **and intends to use in the context of this rule?**

13 A. I am.

14 **Q. Thank you. Brandon, I believe your CV is OCD**
15 **Exhibit 54; is that correct?**

16 A. That is correct.

17 MR. AMES: Move admission of Exhibit 54.

18 HEARING EXAMINER ORTH: Let me pause a moment in
19 the event there is any objection.

20 (No audible response.)

21 HEARING EXAMINER ORTH: Exhibit 54 is admitted.

22 (Exhibit 54 admitted.)

23 MR. AMES: Great, thank you.

24 **Q. Brandon, have you prepared a PowerPoint**
25 **presentation to support your testimony today?**

1 A. I have.

2 MR. AMES: Ms. Polak, could you bring up that
3 PowerPoint?

4 **Q. And Brandon, begin when you're ready.**

5 A. So on this slide, just a general statement. I
6 plan on going over the rules again with a brief high-level
7 summary of the main points instead of a deep dive.

8 My intention is to focus more on how this rule
9 affects the OCD in New Mexico. As Tiffany, Matt, and Jim
10 have already focused on the other details, even though there
11 is some crossover in intent, I will go over each proposed
12 rule one at a time. But once I get to Part 28, I will just
13 note the similarities instead of reading through their
14 entirety to help streamline my testimony by not being
15 duplicative.

16 I think you will notice a pattern as I go through
17 the rules. The majority of concepts are new to New Mexico,
18 however, they track with the OCD's regulatory intent stating
19 back clear to 1970.

20 Next slide, please.

21 So we start on Part 27. Again, this is an
22 entirely new regulation to regulate the upstream operations
23 in New Mexico. As such, we are setting new concepts and
24 regulations to reduce the waste of natural gas from venting
25 and flaring.

1 Next slide.

2 We start with -- I'm going to start with
3 19.15.27.8 NMAC. This section really sets up the intent of
4 authorized venting and flaring in New Mexico and clarifies
5 the venting and flaring outside of the scope is considered
6 waste.

7 It also provides that it is the operator's
8 general obligation to maximize recovery of natural gas in
9 New Mexico. This provides operators in the state with a
10 general explanation of the expectations in New Mexico around
11 venting and flaring and our commitment in requiring
12 operators to reduce the waste of natural gas to the greatest
13 extent possible.

14 Next slide.

15 Now we move on to Subsection B. This section
16 describes the OCD's expectations regarding the operators'
17 obligations for venting and flaring during drilling and
18 requires the gas be flared instead of vented where possible.

19 These implementations, again, are new in New
20 Mexico. As such, we hope they will reduce the potential
21 impacts to human health or the environment during the
22 drilling process.

23 Moving on to Subsection C, I'm going to spend a
24 little time in this section as there is some big new
25 concepts contained that will affect New Mexico going

1 forward.

2 This section describes the OCD's expectations
3 regarding the operators' obligations for venting and flaring
4 during completion operations. It allows for extended
5 completion time frames if there are complications due to gas
6 quality.

7 It also separates completion into two phases, as
8 Jim had previously mentioned, the non-separation and
9 separation phases. These implementations during completion
10 work are new for the OCD and New Mexico. Currently, venting
11 and flaring during completion work is totally exempted from
12 any of the regulations for the first 60 days.

13 As proposed in the separation phase, there is
14 language in place to provide operators our expectations to
15 capture as much natural gas as possible. Because of this
16 language, our intent is to capture gas that has historically
17 been flared or vented.

18 We also understand that not all gas during
19 completion is sellable due to its quality. So in this
20 section, we have provision which allow operators to address
21 gas contamination issues that could create safety issues
22 such as nitrogen or H²S.

23 Now, in Subsection D, in this section we detail
24 the operators' obligations during production operations.
25 You will notice that routine flaring is not included in the

1 list as it is no longer an allowed practice in New Mexico.
 2 We recognize this will be a big change and we will work with
 3 the operators to phase this approach out through our
 4 compliance program.

5 Again, the implementations during production are
 6 new in New Mexico. In the current rule, there is
 7 considerable ambiguities in the exceptions allowed. This
 8 has led to issues on how it has been applied statewide.
 9 Having the new level of clarity on the expectations will
 10 allow clear and consistent application by the OCD and clear
 11 and consistent operation expectations by the operators.

12 Subsection E. In this section we provide new
 13 standards in New Mexico.

14 Q. Brandon, I'm sorry, I was trying to cut in there.
 15 Can you pause a second?

16 A. Certainly.

17 Q. Thank you. I wanted to, before we left the
 18 discussion about exceptions under Subsection D, I wanted to
 19 give you an opportunity to expand on the Division's reasons
 20 for deleting the exception in 8.D.1 regarding federally
 21 enforceable air quality permits.

22 During Mr. Bolander's testimony, he suggested
 23 that you would be able to expand on that, and the chair
 24 asked for additional information as to the Division's reason
 25 or reasoning for deleting that provision. Could you expand

1 **on that?**

2 A. Certainly. So that provision was originally
3 adopted by the OCD into our draft to ensure there wasn't a
4 conflict with the NMED's rules -- or NMED's permits. As we
5 worked through the rule, we included additional items and
6 made some slight tweaks to that, but we left it mostly the
7 same.

8 Prior to coming to hearing, there was some
9 suggested language for some changes to that provision. We
10 looked at those suggestions. We were looking at potential
11 alternatives.

12 We contacted the NMED, discussed that language
13 and those alternatives with them. They rereviewed what we
14 had put together and determined that everything that they
15 felt was needed was incorporated in other provisions of our
16 rule.

17 So we again asked them to rereview it just to
18 ensure that that was the case. They had their legal counsel
19 review it. They also had management review it, and then
20 they came back and said that it was no longer needed.

21 Because of that, we looked at it again just to
22 ensure that we didn't need it. And after rereviewing it,
23 and because NMED didn't have it, we were concerned if we
24 left it in there, that it could create some loopholes
25 because of the different permits that were applicable that

1 if, say, a facility had an NMED Commission's permit, then
2 all of a sudden it could create a loophole for routine
3 flaring because it was a permitted facility. So we opted to
4 go ahead and take that out.

5 **Q. Thank you.**

6 A. Moving on to Subsection E, performance standards
7 for separation, storage tank, and flare equipment.

8 In this section we provide new standards in New
9 Mexico for equipment, including performance standards and
10 define inspection intervals.

11 Our intent is that these prescriptions will set
12 standard expectations in the state, which will subsequently
13 reduce waste from them. The OCD has not previously applied
14 a minimum frequency for inspections on the operators.
15 However, we feel prudent operators are already visiting
16 these sites and performing these types of inspections. For
17 them, we are now asking that they just be documented.

18 For the other operators, the AVO requirements
19 will reduce venting in the state by discovering well leaks
20 earlier through minimum expectation of inspections. The
21 inclusion of shut-in, temporary abandoned, and inactive
22 wells in the frequency require wells that may not be -- may
23 not have been previously inspected in years to now be
24 inspected at least monthly. Historically, in our
25 inspections, we found leaks on these types of wells that may

1 have been left unchecked by the operators for years.

2 I am going to elaborate a little further on the
3 inclusion of temporary abandonment wells under this section
4 because they were referenced by NMOGA, and I believe there
5 may be some confusion there.

6 These wells are regulated by OCD's current rule
7 19.15.25.14 NMAC. I would like to point out that this rule
8 doesn't directly require that the isolating device used for
9 testing purposes to stay in the well during the temporary
10 abandonment timeline, which is why we are still requesting
11 they be inspected as they could still develop surface leaks.
12 This regulation is different from the federal requirement
13 under BLM where those isolating devices are required to stay
14 downhole.

15 Next slide, please.

16 Subsection F, measurement of vented and flared
17 natural gas. This section establishes requirements in the
18 state for the measuring of venting and flaring and includes
19 information based on the situations that these occur with a
20 meter or through estimations.

21 One of the issues we currently have in the state
22 is we have no way to identify how an operator is measuring
23 the venting and flaring they are reporting and if it is
24 accurate. This will give a new tool to be able to start
25 evaluating these situations. This will allow the OCD and

1 the State a reliable picture of what is occurring during
2 operations on a well or facility.

3 Moving on to reporting of vented or flared gas.

4 This flared -- this section details requirements
5 for reporting venting and flaring in New Mexico. The other
6 big change in this section is, from the current rule, is
7 change in the intent of the C-129 from an authorization form
8 to a reporting form.

9 During this process, we identified the current
10 system in New Mexico was very generalized and that
11 information we were receiving was not reliable. Because of
12 this, we had difficulties being able to fully understand
13 where the venting and flaring is occurring in New Mexico and
14 at what frequency. The proposed section addresses these
15 issues by providing the OCD and the State a holistic view of
16 the venting and flaring and where it is occurring at a
17 granular level.

18 As part of the outreach we conducted, it was
19 identified there was considerable overlap between the newly
20 proposed 129 and the C-141. To account for this overlap, we
21 are now proposing to use the C-129 in lieu of the C-141 when
22 the reporting of gas only release.

23 **Q. Brandon, I have a couple questions for you here.**
24 **Can we pull up OCD Exhibit 2A, and specifically Page 5G1,**
25 **8.G.1.**

1 A. Certainly. Can I be -- there we go. You said
2 Page 5, 8.G.1?

3 Q. Yes. I think you are in 28. I'm referring to
4 27.

5 A. Oh, I'm sorry. I thought I was in the right
6 rule.

7 Q. So I think it's up from where you are. You're a
8 little down.

9 A. G is down.

10 Q. There you go. That's fine right there. So I
11 just want to clarify something. G.1.A requires a report --
12 G.1.A, little i, requires a report, and then G.1.A, little
13 two and three, both refer to C-129. Is this a more-than-one
14 form -- is more than one form being filed?

15 A. So that is all the same form, it's just different
16 events that classify what category of response or what
17 category that that form fits in. Those categories are
18 reflective under 19.15.29 as well, and that language was
19 adopted into this one, specifically so that 129 could be
20 used in lieu of the 141 as needed.

21 Q. Okay. Then what is the purpose of G.1.A, little
22 three?

23 A. G.1.A, little three, is to give us notification
24 when that venting or flaring has terminated. So they would
25 file one when it starts, and then they would file one at

1 termination.

2 Q. So you're saying operators file an initial form
3 and then update it in the final form?

4 A. Yes.

5 Q. Which -- So -- go ahead. I'm sorry.

6 A. I was going to say, so when they file the initial
7 form, they may have the information of why it started, where
8 it started, but they wouldn't have the total volumes of how
9 much was vented or flared during the process. So the final
10 form is to complete all the gaps in that information that
11 they may not have up front.

12 Q. Okay. Do you recall Mr. Feldewert asking some
13 questions, I believe of Mr. Lepore, about how operators
14 would be able to report accurately on a monthly basis under
15 G.2 if they don't have some data at that time?

16 A. Let's see, so under G.2?

17 Q. Yes. So like, so the question I think is, if an
18 operator doesn't have some information at the time it's
19 required to file its monthly report under G, G.2, would it
20 have an opportunity to provide that information to correct
21 its initial submission?

22 A. Yes. Although the system hasn't been created
23 yet, the C-115-b would work similar to the current C-115
24 process where if they filed information and then previously
25 gained additional information, they could amend that form so

1 it would be appropriate.

2 Q. So if I understand you correctly, you're saying
3 that under G.1, the operators file an initial form and a
4 final form to update the information, and OCD already has a
5 similar process in place for C-115s; is that right?

6 A. That is correct.

7 Q. And you're saying OCD would do the same for
8 C-115-Bs; right?

9 A. That would be correct. One thing to note that I
10 think was maybe missing from the previous testimony where
11 they were talking time frames and those kind of things, the
12 C-115 B report doesn't come until roughly 45 days after the
13 production has already taken place.

14 So during that time, if there's clarifications
15 that need to be made, as Madam Chair represented, acts of
16 God, if they are waiting for that classification for us to
17 say that it was beyond their control, they have that 45-day
18 window to get that determination as well.

19 Q. And that determination arrives in the context of
20 what is or is not an emergency; is that correct?

21 A. That is correct.

22 Q. Okay. Thank you. One more question. If you go
23 down to G.4 -- I'm sorry, G.3. So in G.3, the Division
24 proposed a change here from the operator reporting on a
25 volumetric and percentage basis the volume of lost natural

1 gas to the Division compiling and publishing it. Can you
2 explain why the Division made this change?

3 A. So we made this change because we felt that it,
4 it's purely an accounting change that can be made in the
5 system that's going to be designed for this. It's something
6 that can be auto-calculated and published.

7 So it's entirely in the system to do those
8 calculations, because we are requiring the operators to
9 submit on a well basis or a facility basis. So this could
10 auto-compile this into a general overall number that we can
11 then publish or have available to the public.

12 Q. Okay. Thank you. So operators are reporting the
13 data on a well basis, and the Division will compile and
14 publish the operator's overall compliance for their gas
15 capture requirement; is that correct?

16 A. That is correct. Yes.

17 Q. And then finally, let's go to G.4 now, the
18 royalty owner reporting requirement. And I believe you had
19 a couple of points you wanted to make in response to some of
20 the questions that the Chair asked.

21 A. Let me look at it again. I think there are some
22 overall points that I would like to make and then I can
23 dive further down into it. I think there was some confusion
24 over the information that we previously referenced that
25 we're going to compile in 3.

1 In 3, it's an overall operator's perspective as
2 far as the operator as a whole. The information we are
3 looking for in 4 is not an operator's perspective as a
4 holistic operator. It would be the reports on what effect
5 does it have on the individual royalty owner. So the
6 operator -- we're asking the operator to report to that
7 royalty owner the volumes that directly affect that royalty
8 owner during that monthly timeframe.

9 Those royalty owners are directly affected by
10 their reduced royalties from waste, if it truly is waste.
11 So by being affected by that waste, we feel that, one, they
12 need to be informed, and, two, once they are informed, if
13 they have contractual obligations to reduce waste during the
14 production of those minerals, then they can take whatever
15 action appropriate to work with the operator to reduce
16 those, that waste, which is why we're including this
17 provision is we feel that once the royalty owners are
18 notified of that waste, they can work with the operators to
19 try to reduce that waste.

20 **Q. Are there other places in OCD's rules where,**
21 **where royalty owners are given information, or where they**
22 **are required to give information to royalty owners?**

23 A. So I'm not aware of any other places where
24 royalty owners specifically are required to receive
25 notification. We do have some other rules where surface

1 owners are required to give information off of a similar
2 scheme, and maybe I shouldn't use "scheme," but on a similar
3 process where surface owners are being affected by an
4 operator's process, we require the operators to give them
5 notice of those processes, specifically our PIT Rule, which
6 is 19.15.17 NMAC and our release rule which 19.15.29 NMAC.
7 Both have notifications to notify a surface owner of a
8 specific issue.

9 And it's really kind of similar in what we're
10 looking at is the operator is doing something that could
11 directly affect the royalty owner, so that's why we're
12 providing that information.

13 **Q. Thank you, Brandon. I think we can return to**
14 **your PowerPoint presentation, and I think we are on Slide**
15 **97, Statewide Natural Gas Capture requirements.**

16 **A.** Okay. So this moves to the next section is the
17 Statewide Natural Gas Capture, as Eric pointed out.

18 This section establishes the gas capture
19 requirements and accounting methods. This section is
20 significantly reducing venting and flaring, in my opinion,
21 in New Mexico. It sets a 98-percent capture requirement
22 with a five-year implementation. It separates the state
23 into two sections and allows the OCD to spend APDs prior to
24 spud if an operator fails to meet certain compliance
25 requirements.

1 The percentage used has been thoroughly reviewed
2 by Matt and Jim in previous testimony, and has previously
3 stated that as far as we know, the overall venting and
4 flaring percentage requirement being proposed is the first
5 time in not only in New Mexico's history, but in the
6 country, that this has been directly added into the rules.

7 This is a new concept in New Mexico to reduce
8 venting and flaring and hold all operators to the same
9 overall venting and flaring threshold, adding predictability
10 for New Mexicans and for the operators. The proposed
11 section provides a defined gas capture expectation for all
12 the operators in the state. It also considers the path of
13 98-percent compliance may be different for various
14 operators. So the five-year phased approach allows the
15 operators to follow a more individualized approach to
16 achieve this compliance.

17 Next slide, please.

18 Moving on to the accounting section, B. This
19 section goes over the accounting of the rule and also
20 introduces a new program we are proposing called ALARM. The
21 accounting section will allow the OCD to see an overall
22 picture of the operator's compliance with the venting and
23 flaring percentage in New Mexico.

24 The ALARM section is creating a new way to
25 incentivize new monitoring methods and advancement. The

1 concept is an attempt to create a partnership between the
2 OCD and the operators and looks to sponsor advanced
3 technology and innovation. Looking at the future innovation
4 is something that will benefit not only the State of New
5 Mexico, but also operators as new technologies come out.

6 This is a big area where I think rules fail is
7 when they don't look at the future innovation. So I see
8 this as a big win for New Mexico.

9 Moving on to Subsection C, which is third-party
10 verification. The proposed section allows the OCD the
11 ability to have measurement methods verified independently
12 if there are major concerns over an operator's measurement
13 process.

14 This is a new concept in New Mexico and we hope
15 to use it as a collaborative effort between the OCD and the
16 operators to ensure reporting methods if there are major
17 concerns without proceeding with more formal action, which
18 could include penalties.

19 Subsection B, natural gas management plan. This
20 section requires future planning prior to APD submittal by
21 the upstream and midstream operators, ensuring takeaway gas
22 capacity. It also encourages compliance as it lessens the
23 information burden if an operator is following their capture
24 requirement.

25 Historically, the OCD attempted to have operators

1 plan their gas takeaway by requiring a gas capture plan.
2 That process was never written into rule and this proposed
3 section formalizes and builds off of that original concept
4 by requiring upfront planning.

5 This preplanning requirement will create more
6 cohesive and verifiable relationship in New Mexico between
7 upstream operators and midstream gathering companies to
8 reduce the wasteful venting and flaring in the state.

9 We now move on to Part 28. This section
10 regulates venting and flaring on the midstream side. This
11 is a very new concept for the OCD and New Mexico as current
12 midstream regulations are very limited in this aspect. As
13 previously stated, now that we are reviewing 28, I will just
14 note some of the similarities where they exist instead of
15 reading through their entirety to help streamline my
16 testimony.

17 The first part is 28.8, venting and flaring of
18 natural gas. This section generally prohibits venting and
19 flaring but identifies a limited number of situations when
20 venting and flaring is allowed, establishes equipment and
21 measurement standards.

22 This is the first rule portion with similarities
23 between the rules referenced in Subsection A -- sorry,
24 referenced in 27. As you can see, just under Subsection A,
25 I reference the reference to the applicable rule in 27.

1 Similar to Part 27 for upstream operators, this
2 provides midstream operators with a general explanation of
3 expectations in New Mexico around venting and flaring and
4 our commitment in requiring operators to reduce the waste of
5 natural gas to the greatest extent possible.

6 Next slide, please.

7 Subsection B, this section sets up the venting
8 and flaring expectations during operation of midstream
9 processes. This section is very similar in intent to the
10 new production prescriptions in Part 27. In New Mexico,
11 these venting and flaring prescriptions are completely new
12 to the OCD. We are proposing these new regulations to an
13 area that is currently mostly unregulated by the OCD. This
14 level of clarity on the expectations will result in
15 decreased waste for venting and flaring in the state.

16 Moving on to performance standards. Again, this
17 is second slide now where it's also similar to Part 27 and
18 you can see the direct rule reference there. Similar to 27,
19 the OCD has not previously applied performance standards to
20 these pieces of equipment. These prescriptions will set new
21 standard expectations and reduce waste.

22 Also, as previously stated, a minimum frequency
23 of inspections is new to New Mexico. The AVO requirements
24 will reduce venting in the state by discovering equipment
25 and line leaks sooner.

1 Q. Brandon, before you move on, I have a question
2 here for you about C.1, 28.8.C.1 the operation plan. You
3 heard Mr. Feldewert ask Mr. Bolander a number of questions
4 about the plan, and one of those questions was what does the
5 OCD expect to get out of this and what is the OCD expected
6 to do with the information.

7 Do you have some information to offer to the
8 Commission to explain why OCD wants this provision and what
9 it expects the information to achieve?

10 A. I do. So I think, conceptually, what we are
11 looking at, and I think what's being pointed out is, even
12 though this lists different categories in it, we are not
13 regulating those categories specifically. We are regulating
14 those categories as they relate to leaks and releases.

15 So say cathodic protection was the one I believe
16 that was previously addressed. We are not referencing how
17 they address their cathodic protection, what equipment they
18 use, those kinds of things. We want to know how they are
19 handling their cathodic protection in a way that reduces
20 leaks and releases. So it's more of a holistic view
21 relating to the leaks and releases that we are really
22 looking at and not the equipment operation itself.

23 In that, once we get those plans, we would take
24 those plans and we would have them on file, then we include
25 a brief review when we get on to see what they are. And

1 then if we see issues relating to an operator in that
2 specific process or that specific piece of equipment, we
3 would go back to their plan, look at their operations plan,
4 see what it says, and if we identify that they are doing
5 something in their operations that could be causing that
6 leak and release, then we can get with those operators to
7 address that specific operation in their operations plan.

8 So it's not just addressing the small instance,
9 it's addressing the bigger picture or even they may be
10 having that same issue on multiple different sites or level,
11 if it's an operational deficiency instead of a specific
12 equipment deficiency.

13 **Q. Thank you.**

14 A. Moving on to Subsection B, reporting to affected
15 upstream operators. Jim spent quite a bit of time on this
16 one earlier, but I would like to just continue to point out
17 this section requires notice to the upstream operators of
18 issues that affect them. The intent is to limit unnecessary
19 venting and flaring by upstream operators in New Mexico by
20 giving them expedited notice from midstream companies
21 allowing them to quickly take appropriate actions. We have
22 heard in the past that this communication has been lacking,
23 which caused extended venting and flaring in upstream
24 operations.

25 And I think the connection has been made earlier,

1 but I would just like to reiterate it for clarity, is the
2 four hours that's been discussed under Part 27, that is
3 directly contingent on those upstream operators getting the
4 notice from the midstream company.

5 So that four hours doesn't start until they
6 receive their notice. So it's extremely important that the
7 midstream operators give those upstream operators that
8 notice.

9 Next slide, please.

10 Subsection E, measurement of vented and flared
11 natural gas. Measurement of venting and flaring for a
12 natural gas gathering system is new to New Mexico. This
13 establishes requirements which would allow us a better
14 picture of what is occurring during these operations.

15 And I know that was really short, but Jim did a
16 really good job diving into the details of that.

17 Subsection F, reporting of vented or flared
18 natural gas. This section is also very similar to Part 27,
19 in the corresponding Part 27 rule as above. During this
20 process we identified venting and flaring of natural gas
21 during gathering was not tracked or reliable in New Mexico.

22 One of the difficulties we faced was being able
23 to fully understand where venting and flaring is occurring
24 and at what frequency. The proposed section allows the OCD
25 to obtain a holistic view of the venting and flaring in New

1 Mexico at a granular level.

2 Now we move on to Subsection 9, which is location
3 requirements. This was another area that Jim went through
4 extensively, but I feel it is very important, so I plan on
5 going through it quite a bit as well. We feel the
6 information required by this section is a very important
7 addition to the OCD's rules and to the safety of human
8 health and the environment in New Mexico.

9 Historically in New Mexico, the OCD has struggled
10 at times to locate responsible operators during an emergency
11 or a release originating from a pipeline. This information
12 will allow the OCD to contact the proper operator the first
13 time and reduce the amount of time it takes to identify the
14 responsible operators.

15 Actually, Tiffany, if you could go back one
16 slide.

17 The annual updates will ensure that the OCD is
18 working with up-to-date data and operators. This has been
19 difficult in the past as we have abandoned lines marked with
20 prior operators causing issues and it is difficult to track
21 down the current operator.

22 The GIS later showing the emergencies and
23 malfunctions on specific lines will allow operators in New
24 Mexico to identify and address problem areas, greatly
25 reducing ongoing venting and flaring in those identified

1 areas. Currently, it is difficult to map these issues and
2 tie them to a pipeline. Even in a close area, there could
3 be multiple pipelines in a single easement.

4 So what that means is, yes, we are getting all
5 the 141s currently, we plan on getting all the 129s, and all
6 of those are going to have a location requirement aspect to
7 those forms showing where that happened. But that may not
8 provide us enough data to truly see what's going on, because
9 there are times where you could have multiple pipelines in a
10 single easement, so you don't know which pipeline that is
11 actually relating to. Or you could have a single pipeline
12 that's having multiple issues that could be hundreds, if not
13 thousands of feet apart, but all related to the same issue.

14 Next slide, please.

15 Now we move on to Section 10, statewide natural
16 gas capture. Again, this is very similar to the Part 27
17 rule. Currently, New Mexico does not have an overall
18 venting and flaring percentage requirement. This is a new
19 concept to reduce venting and flaring in New Mexico and hold
20 all operators to the same overall venting and flaring
21 threshold.

22 This defines gas capture expectations for all
23 midstream companies in the state. It also considers the
24 path to 98-percent compliance may be different for various
25 companies, and the five-years phased approach allows them to

1 follow a more individualized approach to achieve this
2 compliance.

3 Q. Brandon, before you go on to the next slide,
4 Subsection C, I'd like to go back to 10.A. Could you bring
5 up Exhibit 3A, Page 6?

6 A. Certainly.

7 Q. So scroll down to 3A, 3 and 4. So it looks to me
8 like A.3 is the same provision as appears in 27; is that
9 correct, except that here it applies to gathering systems as
10 opposed to operators?

11 A. That is correct, yes. I believe they're the
12 same, just with a gathering system versus well.

13 Q. But A.4 is new. Where did this come from, and
14 why do we want it? Well, you can answer that, the first
15 question, and I will ask the second one, or you can answer
16 both of them, it's as you wish.

17 A. I think in that one what we wanted is we wanted a
18 holistic view of what an operator is getting as far as their
19 gas capture requirement instead of splitting it up to
20 various different affiliated operators or different
21 affiliations.

22 Q. Are you aware that -- well, how many natural
23 gas -- well, maybe that's not a fair question to ask you.
24 About how many natural gas system operators are there in the
25 state?

1 A. I don't know that, and I wouldn't even know to
2 venture a guess.

3 **Q. Okay. All right. I will save my questions for**
4 **NMOGA then. Thank you. You can go back.**

5 A. Let's see. I believe we covered Subsection A, so
6 let's move to the next slide, Subsection B, accounting.

7 Again, this is very similar to the Part 27 Rule,
8 just related to the upstream or the midstream environment.

9 I would like to note that I had a rule reference
10 in this section in the previous slide that were filed, Part
11 27.9.B is the correct reference.

12 Similar to Part 27, this will allow the OCD to
13 see an overall picture of an operator's compliance with the
14 venting and flaring percentage in New Mexico. And also, as
15 previously stated, the ALARM section is creating a new to
16 for monitoring methods and advancement. The concept is
17 attempting to create a partnership between the OCD and
18 operators and look to sponsor advanced technology and
19 innovation. Looking at future innovation is something that
20 will benefit not only the State of New Mexico but also the
21 operators as new technologies come up.

22 Next slide, please.

23 Third-party verification, i give another noted
24 reference to 27. The proposed section provides a
25 collaborative tool in New Mexico for OCD operators to review

1 concerns without having to file an enforcement action which
2 could include penalties.

3 So that concludes the Part 28 provision, but I
4 have some additional historical information I would like to
5 go into.

6 Historically, the OCD started acting on venting
7 and flaring waste on December 1, 1970 that I could find. As
8 evidenced by Order R4070, in this hearing, the Commission
9 recognized the unnecessary venting and flaring as a waste.
10 Not only did the order address venting and flaring at a well
11 level, but also at processing plants. It will be evident
12 when reviewing this information, the Commission was
13 reviewing very similar issues that exist today.

14 So moving forward, here are some findings from
15 the -- here are some of the findings and orders listed
16 directly from them. So we will start with R-47, the orders
17 and findings. First, we will look at the findings.

18 I'm going to read Finding Number 2, that
19 substantial amounts of casing head gas produced from oil
20 wells in the State of New Mexico are presently being flared
21 or vented to the atmosphere. Noted reference casing head
22 gas, I found in some of our old rules that's how natural gas
23 used to be referenced. As evidenced by this finding the
24 Commission was reviewing actions to be taken due to
25 substantial gas being vented and flared in New Mexico. This

1 mirrors the current issues we have today. An example of
2 this is, as Tiffany showed, the roughly 37 million MCF
3 vented or flared in 2018 and again in 2019, which is a
4 dramatic increase over prior years.

5 Now I'm going to read Finding Number 4. That in
6 order to prevent the unnecessary or excessive surface loss
7 of a valuable and natural resource, the wasteful flaring or
8 venting of casing head gas should be prohibited.

9 These Commission findings were very similar to
10 our own findings during this process. They look to prevent
11 wasteful flaring or venting by prohibiting unnecessary or
12 excessive venting and flaring.

13 Now I'm going to move to the order side. I'm
14 going to start by reading Order Number2.

15 That except as provided in this order, no casing
16 head gas produced from any well in the state completed after
17 January 1, 1971, shall be flared or vented after 60 days
18 following completion of the well.

19 In the findings, OCD explicitly bans venting or
20 flaring of gas after completion, with limited exceptions
21 located in Section 3.

22 I'm not going to go through Section 3 in its
23 entirety, but Section 3 said the general expectations used
24 today and due to the broad language used, they have been
25 difficult to consistently regulate, and we feel have failed

1 to meet the Commission's original intent.

2 Now I want to move on and read Order Number 5.

3 That no extraction processing -- plant processing any gas in
4 the State of New Mexico shall flare or vent such gas unless
5 flaring or venting is made necessary by mechanical
6 difficulty.

7 The reason I point out this section is the
8 Commission previously tried to address venting and flaring
9 at processing plants which extended the scope of enforcement
10 to the midstream operations, which is similar to what we are
11 trying to accomplish in Part 28.

12 Next slide, please.

13 The OCD then revisited the regulations in Hearing
14 Order R-4382 on August 30, 1972. In this hearing, the
15 Commission again recognized unnecessary venting and flaring
16 as a waste. This hearing established the venting and
17 flaring rule requirements that are currently in use today
18 which have remained mostly unchanged in the last 48 years
19 even as technology advanced.

20 To give an example how technology advanced or
21 changed since that 1972 time period, I would like to note
22 that in 1972, there was the invention of the first hand-held
23 scientific calculator, which is quite a difference from what
24 we see today.

25 Next slide, please.

1 So again, we see the findings and the orders. I
2 would like to start by reading Finding Number 2, by order
3 and Number R-4070, which is dated December 1, 1970, the
4 Commission prohibited the flaring or venting of casing head
5 gas from any well in the state or for any extraction plant
6 in the state except under certain limited and specified
7 conditions.

8 In the finding, the Commission referenced the
9 1970 order as a prohibition of venting and flaring except
10 under certain limited and circumstances. Due to the
11 magnitude of venting and flaring today, we feel that this
12 intent is no longer being met.

13 I'm going to read Finding Number 3 now. Then
14 after a period of time which to test the efficiency of said
15 order and the provisions contained therein, the Commission
16 believes that said order has been a useful tool in promoting
17 the beneficial use of even small amounts of casing head gas,
18 and that it is in the interest of conservation and the
19 prevention of waste.

20 I would like to point out that in this finding,
21 the Commission specified that even small amounts of casing
22 head gas have been in interest of conservation and
23 prevention of waste. This shows the Commission wasn't just
24 looking at large sources of venting and flaring, but also
25 small sources.

1 I'm not going to go further into the order as it
2 remains mostly unchanged in the intent from the 1970 order.
3 However, I would like to note the main language in this
4 order is still used in the current rule 19.15.18.12 NMAC
5 that we are asking to be struck.

6 Another example, just for fun, of how the
7 technology has changed since this order, this language was
8 established nine years prior to the invention of a laptop
9 computer which is now standard equipment in most operator's
10 field trucks.

11 I'll move on to summarize Parts 27 and 28.

12 These rules update the OCD's expectations
13 regarding waste from venting and flaring based on current
14 technology. This level of change in waste regulations in
15 New Mexico has not been substantially undertaken or seen in
16 the last 48 years.

17 These rules establish standardized inspections,
18 granular reporting requirements and specify process
19 guidelines that provide a comprehensive path for reducing
20 waste of natural gas in New Mexico. Robust stakeholder
21 engagement allowed OCD to gather key information from a
22 variety of technical experts and incorporate it into the
23 proposed rules.

24 This cooperation with stakeholders and other
25 agencies has created achievable and enforceable rules in New

1 Mexico. These rules take into account technology advances
2 and allow operators to chart their own path to compliance
3 with overall said goal of 98-percent gas capture by December
4 31, 2026. This is a progressive set of rules that will
5 reduce waste of natural gas in New Mexico for years to come.

6 So now I'm going to move into the related rule
7 changes. These are the rules that will be affected by the
8 implementation of 27 and 28. Specifically those rules will
9 be 19.15.7, which is forms and reports; 19.15.18, which is
10 production operating practices; 19.15.19, which is natural
11 gas production operating practices.

12 As I go through, I'm going to show what's being
13 changed, and then I'm going to identify our rationale for
14 that change in blue. I don't intend to spend a lot of time
15 on these as they are more just clean-up of the adoption of
16 27 and 28.

17 So the first one up is 19.15.7.1, and all we are
18 doing is identifying the correct agency in the correct
19 manner. Moving on to 7.8, we insert a -- or 7.8.D, I'm
20 sorry, we insert a new Paragraph 18, which is the C-115
21 volume of vented or flared gas.

22 We adjust the numbers of subsequent paragraphs
23 and insert new Paragraph 57 and 58 to add new forms to
24 accommodate OCD's previous adoption of changes to 19.15.34,
25 which is produced water, drilling fluids and liquid fill

1 waste.

2 Next slide.

3 Now we are moving into 7.24 or 7.24.B, operators'
4 monthly report. We identify a specific form and clarify the
5 language in the rule.

6 Next slide.

7 19.15.7.25, vented and flared natural gas, we add
8 the new C-115 form as required by Parts 27 and 28. And then
9 we renumber the subsequent sections.

10 19.15.7.37, application for exception to no
11 flare, we identify correct references and then, again,
12 renumber the sections.

13 Now we move on to 19.15.18, production operating
14 practices. We identify the correct agency in the first
15 part, we correct the formal citation in the third part, and
16 we conform language to the State Records Center's rules in
17 the 8th Part F and K. In the 11th and 12th parts, we remove
18 sections replaced by Parts 27 and 28 and then reserve the
19 sections to avoid the need to renumber subsequent sections.
20 In the 14th part, we conform title to current usage, in 16-B
21 we conform language to current use.

22 Moving on to 19.15.19, natural gas production
23 operating practices. In the first part we identify the
24 correct agency. In the third part we correct the formal
25 citation. In the 10th part we removed this section and

1 replaced it by Part 27. We reserved this section to avoid
2 the need to renumber subsequent sections.

3 That concluded all the different rule sections.

4 The proposed rule satisfied the OCC's executive
5 statutory and administrative objectives by implementing the
6 governor's mandate to establish a statewide enforceable
7 regulatory framework to reduce methane emissions in the oil
8 and gas sector, preventing waste and protecting correlative
9 rights, public health and the environment, establishing
10 rules using the best available science, employing creative
11 engineering and technology solutions, engaging communities
12 and stakeholders and ensuring meaningful compliance,
13 standardizing the requirements for inspections and reporting
14 across the oil and gas sector, providing flexibility for
15 operators to adopt new technologies rather than prescribing
16 engineering solutions and fulfilling the OCD's historic
17 objective to reduce natural gas waste.

18 To end with, we feel these changes create a
19 strong regulatory framework which is enforceable, allowing
20 the State of New Mexico to secure substantial reductions in
21 preventing waste in New Mexico due to venting and flaring.
22 We feel these changes could very well be used as a national
23 role model for other states.

24 And with that, I'm done with my presentation.

25 **Q. Thank you, Brandon. Brandon, are Exhibits 55 and**

1 **56 accurate copies of OCC Orders R-4070 and 4382?**

2 A. They are.

3 MR. AMES: Move their admission.

4 HEARING EXAMINER ORTH: Let me pause for a moment
5 to see if there are objections.

6 (No audible response.)

7 HEARING EXAMINER ORTH: The exhibits are
8 admitted.

9 (Exhibits 55 and 56 admitted.)

10 MR. AMES: Thank you, Madam Hearing Officer.
11 Pass the witness.

12 HEARING EXAMINER ORTH: Let's take a ten-minute
13 break and when we return I will ask Mr. Feldewert if he has
14 any questions of Mr. Powell

15 (Recess taken.)

16 HEARING EXAMINER ORTH: All right. Thank you.
17 We are back after a ten-minute break. We just completed
18 Mr. Powell's direct presentation. Mr. Feldewert, do you
19 have questions of Mr. Powell?

20 MR. FELDEWERT: Yes, Madam Examiner, I do. Can
21 you hear me okay?

22 HEARING EXAMINER ORTH: Yes, I can hear you okay.

23 MR. FELDEWERT: Great. Thank you. And will I be
24 able to share content? Looks like I can now, yes. Great.

25 CROSS-EXAMINATION

1 BY MR. FELDEWERT:

2 Q. Good afternoon, Mr. Powell.

3 A. Good afternoon.

4 Q. Mr. Powell, there's a provision in the sections
5 dealing with AVOs, inspections that require operators to
6 keep a record. Are you familiar with that language?

7 A. Without going to it specifically, I have a vague
8 recollection of it, yes.

9 Q. Let me try to share here. Hold on. I believe
10 I'm sharing OCD Exhibit 2A now. Can you see that,
11 Mr. Powell?

12 A. Not yet.

13 Q. How about now?

14 A. Yes, I can.

15 Q. Okay, great. Thank you. And so this is
16 Subsection 27.8.E.5, and you will see that -- and this is
17 the section dealing with AVO inspections, okay?

18 A. Uh-huh.

19 Q. And down here it talks about the operator shall
20 make and keep a record of an AVO inspection for not less
21 than five years.

22 A. Correct.

23 Q. And I believe we see similar language in Part 28;
24 right?

25 A. I believe so, yes.

1 **Q. Okay. What does the Division mean by "keep a**
2 **record"?**

3 A. That means when they go out and they perform
4 their inspections, they document that it was performed and
5 then they keep the record, however they documented it, for
6 five years.

7 **Q. Are you anticipating that the Division is going**
8 **to put out some kind of a form?**

9 A. That is not our intent. Our intent is to let the
10 operators identify how they want to keep those records, be
11 it through their standard processes that they employ today,
12 and new processes that they may be bringing up, a process
13 that they may develop with the NMED. We're not specifying
14 how that's to be recorded.

15 The main thing we are wanting out of that is,
16 one, that it was performed, and if there was deficiencies,
17 that those were noted. How that is tracked, that's up to
18 the operator.

19 **Q. Okay, thank you. Let's then move on to Subpart**
20 **G. This is the reporting, okay, of vented and flared**
21 **natural gas?**

22 A. Okay.

23 **Q. Again, in OCD 2A, and there is similar provisions**
24 **in Part 28, but I'm interested in G.1.B, okay, and I'm down**
25 **here at Roman Numeral IV where the Division has added since**

1 they published the rule the term "compositional" ahead of
2 "analysis of the vented or flared natural gas." Are you
3 there, Mr. Powell?

4 A. Yes, I am.

5 Q. Okay. What do you mean by providing
6 compositional analysis? What type of analysis are you
7 talking about?

8 A. I apologize, but I believe that's, as its stated,
9 a compositional analysis or a breakdown of what the gas is
10 in that gas stream, be it the oxygen, the nitrogen, the
11 methane content, those kind of things.

12 Q. So that would be like a C6 or something like
13 that?

14 A. I'm not a chemist, but it would --

15 Q. Well, you are looking for oxygen, nitrogen, CO²,
16 H²S, something like that?

17 A. Just the standard gas breakdown that I think the
18 operators deal with in their pipeline provisions and we
19 receive all the time.

20 Q. Okay. What's the purpose of this meeting, why do
21 you need a compositional analysis?

22 A. Let me go back up to -- I think it's just to
23 explain what kind of gas was vented so we know is it all
24 methane, is it a mixture of methane and H²S, is there any
25 additional safety concerns that we need to be looking at.

1 Q. Okay. Do you -- would you expect the operator to
2 obtain that type of analysis, for example, during a venting
3 or flaring event?

4 A. As far as during a venting or flaring event, I
5 would say, if they could. If not, they may have that
6 compositional analysis for their gas stream on record for
7 that well or the facility.

8 Q. And that's -- thanks for that, that's my
9 question. NMOGA has proposed adding the phrase
10 "representative compositional analysis" in front of that for
11 that very reason. Do you see any problems with that,
12 Mr. Powell?

13 A. I think when you add the word "representative,"
14 it could conflict or muddy the waters a little bit, because
15 what does it really representative of; is it representing an
16 entire pool, is it representative of the entire basin, or is
17 it representing the well itself.

18 I think if you're talking about the well or the
19 well stream, I don't see the scriptor in there that says
20 that that compositional analysis has to come from that
21 particular well at that particular time. So I think that
22 ability, as long as it's truly as representative of that
23 stream, is there as written.

24 Q. So, for example, rather than taking -- trying to
25 take a compositional analysis at the point of venting, for

1 example, would operators be able to use a representative
2 analysis that they have on hand of that gas stream from, for
3 example, that they may have from a sales line or something
4 like that?

5 A. Yeah, as long as it's consistent with the gas
6 stream that's venting or flaring, I don't see a problem with
7 that.

8 Q. Okay, all right. Now, I want to go down to G.1
9 -- let's see, G.1.B. Okay? And, I think, Mr. Powell, you
10 had a slide on this that you pointed out that the intent
11 here is for an operator to file a Form C-129 for gas; right,
12 in lieu of a C-141?

13 A. Yes. So D just kind of completes that cycle. I
14 believe A above starts that cycle, where if it's a gas-only
15 release, it is reported on a C-129. D closes the gap on
16 that, where if it's a gas and fluid release, then it's
17 reported on a 141 in lieu of the 129.

18 Q. Okay. And I agree with you that Subpart D
19 communicates that to an operator, that you are to use a
20 C-141 for the release of liquid?

21 A. Uh-huh.

22 Q. The question that has come up is whether you also
23 have to have filed under Rule 29 a C-141 for the release of
24 gas in addition to the C-129?

25 A. So I would, in that -- I will just read that

1 sentence because maybe I'm missing something. The operator
2 shall file a Form C-141 instead of Form 129 for release of
3 liquid drain venting or flaring that is or may be a major or
4 minor release under 19.15.29.7. So say if it includes
5 fluids and it qualifies as a major or minor release under
6 129, that they file the 141 instead of the 129. So it's
7 that singular form.

8 Q. What's not in here, Mr. Brandon, is the statement
9 that an operator who has filed a C-129 under this rule is
10 not required to also file a C-141 under Rule 29 for the
11 release of gas. That's what we seem to be missing. Do you
12 see that?

13 A. I'm looking at that.

14 Q. And the reason I ask is because NMOGA has made a
15 suggestion that would make that clear, that you file a C-129
16 for gas under this rule, you file a C-141 for liquid, and
17 you do not have to file a duplicative C-141 under Rule 29
18 for the release of gas.

19 A. And I remember looking at NMOGA's language as
20 they proposed in D and, to me, it continued to confuse that.
21 I see what you are saying. I would say, if you are filing a
22 C-129 in lieu of a 141 for a gas-only release, that that
23 would probably be better addressed in A, if it's not
24 already.

25 Q. Okay. So in other words, something to make it

1 clear that you don't have to file a C-129 under this rule
2 for the release of gas and then go over to rule, existing
3 Rule 29 and file a C-141?

4 A. That is correct. Our intent was to file one
5 form.

6 Q. Okay. I have a question then also about Subpart
7 D.2.

8 A. I'm sorry, which part of the rule?

9 Q. Good clarification. 27 -- because I'm going the
10 wrong way -- 27.9.D.2. So we're in 27.9, and going down
11 here to D.2. All right, here we go. And I see the Division
12 has made some changes here that were previously discussed,
13 and there was something we noticed that I just wanted to
14 talk to you briefly about, okay?

15 A. Okay.

16 Q. There was a discussion about your D.2, how the
17 phrase for the previous year was added to make it clear what
18 gas capture requirement is applicable. Do you recall that?

19 A. Oh, I didn't testify for the language, so what's
20 your question? What's that again, I'm sorry?

21 Q. Okay. So my understanding is that the Division
22 concluded that adding the phrase for the previous year after
23 "natural gas capture requirements" makes it clear which
24 natural gas, what requirement is applicable for this rule?

25 A. That would be correct.

1 Q. Okay. What I notice is that when we went down
2 here to Subpart D -- so keep that in mind, okay, for the
3 previous year -- when we went down here to Subpart D.6, that
4 similar phrase for the previous year was missing after the
5 phrase "natural gas capture requirement."

6 MR. AMES: Do we have a question, Madam Hearing
7 Officer?

8 BY MR. FELDEWERT:

9 Q. And so my question is, would you agree that to
10 likewise make it clear, that if the operator becomes clear
11 that it has cumulatively for the year become out of
12 compliance with its baseline natural gas capture rate or
13 natural gas capture requirement for the previous year, that
14 that would assist in making it clear, as we did in the
15 previous paragraph?

16 A. I see where you are looking at. I'm not sure
17 that I agree that that's needed. I think that's the intent,
18 because once -- the previous year's natural gas requirement
19 then becomes the baseline requirement for the following
20 year, so by calling it the previous year's requirement, I
21 don't know if that's really needed as it's the new baseline
22 requirement for that year as well.

23 Q. I guess -- so they would have the same intent,
24 would it not, as we see up here in Subpart 2?

25 A. Yes, I believe that's the same intent.

1 Q. Okay. That's what I thought. That's what I
2 thought. While we are here, I wanted to look at Subpart
3 27.9.D.1. Okay? So let's go here, natural gas management
4 plan. I'm looking at Subpart D.1.E, which is some language
5 that the Division recently added on Page 9 of their Exhibit
6 2A, so I'm at 27.9.D.1.C.

7 And you will see there is a reference here to a
8 description of how the separation equipment will be sized to
9 optimize gas capture. Okay? That's where I'm starting.

10 Now, I want to keep that in mind, that phrase,
11 "will be sized to optimize gas capture," because when we go
12 up to 27.8.E.1, so we'll go up here to the performance
13 standards, 27.8.E.1, this requires operators to design
14 completion and production separation equipment and storage
15 equipment for that maximum anticipated throughput and
16 pressure. Okay, Mr. Powell?

17 A. Okay.

18 Q. Now, this new language under 27.9.E.1 talks about
19 separation equipment to optimize gas capture. Is there a
20 difference -- did you intend a difference in terms of the
21 standard?

22 A. I think they both accomplished the same thing,
23 and I think there's the added word "optimize." But I think
24 what we are looking for is for the operator to perform
25 proper planning to ensure their equipment is sized

1 appropriately.

2 Q. Which would be, under E.1, would be based on the
3 maximum anticipated throughput and pressure; right?

4 A. Yeah.

5 Q. And is there -- is there any difference in the --
6 if I go back down here to 29.E.1 -- and again, this is new
7 language, that's why I'm asking you a question about it,
8 what separation equipment is being discussed here that
9 wasn't already addressed in E.1?

10 A. I think the difference is, is in this section
11 we're asking for the operator to provide us that
12 information. I would have to look at the section you
13 previously referenced to see if that was provided to us.
14 You could make it consistent, you could add in E, the
15 maximum anticipated volumes and liquids in natural gas
16 production and a description on how separation equipment
17 will be properly sized for throughput, to make it
18 consistent. I think the difference is, is this section
19 we're asking for that planning side to be provided to us.

20 Q. Okay. Okay. And then once that's provided to
21 the Division, does the Division intend to do anything with
22 that, or are you guys going to second-guess that, or what's
23 the thought there of providing you -- providing the
24 information?

25 A. So I think all applications that come to the

1 Division all follow kind of a general overview review
2 process. We get those applications, we get those
3 submittals, we look at them, we make sure there are no
4 glaring errors, make sure the processes being applied to
5 conform with our rules, that it, for lack of a better word,
6 it passes the smell test, and then we file it.

7 And then if there is an issue upfront, then we go
8 back and look at it. We work with the operator for that
9 plan. You know, if they filed a plan that says their
10 maximum anticipated volumes were 8,000 barrels a day, and
11 then they are getting 20,000 barrels a day back, then we
12 would go back to the operator and say, you know, why are the
13 anticipated volumes so much different than the volumes you
14 are actually seeing.

15 Q. So there is no intent here, for example, to
16 receive this, spend a period of time deciding if you are
17 going to approve it and then approve it?

18 A. No, we're just asking for information to be
19 included showing that.

20 Q. All right. That's what I thought.

21 While we are here, there was a question that I
22 had of, I believe Mr. Lepore, and he politely punted to you,
23 okay, and it has to do with Subpart D.7. Were you here for
24 that testimony?

25 A. I was.

1 Q. Okay. And this is the whole process, right,
2 where you are filing an APD and you -- you certify under
3 D(4) whether you have adequate takeaway capacity at the time
4 of spudding or whether you don't, and if you don't, then you
5 go into D(5), which is the venting and flaring plan that you
6 submit then; right, with your APD?

7 A. That's correct.

8 Q. And then we get all the way down to the end here,
9 where it says, on Part 7, it says that the operator does not
10 make its certification, so that would be the certification
11 under C.4; right, Mr. Powell?

12 A. That is correct.

13 Q. Or fails to submit an adequate venting and
14 flaring plan, and that would be under D(5)?

15 A. Yes.

16 Q. Then it says, or if the Division determines that
17 the operator will not have adequate natural gas takeaway
18 capacity at the time the well will be spud.

19 At the time that the Division is considering the
20 APD, the application to drill, do you contemplate that the
21 Division is going to look ahead and make some kind of a
22 determination itself as to whether there is going to be
23 adequate takeaway capacity?

24 A. I don't see the Division spending a lot of time
25 on that, but the Division at different times gets a lot of

1 different information. I think that allows the ability to
2 make that determination if they know of maybe issues with a
3 particular field, issues from a particular operator where
4 they certify it and then don't have takeaway capacity, I
5 think that allows us to address kind of the one-offs that
6 may come up.

7 And I would say that that provision, if we
8 determine they don't have adequate takeaway, more than
9 likely would fall probably under 7.B where we would maybe
10 conditionally grant an APD.

11 Q. Okay. Because one would assume a lot of times at
12 this point the operator will have certified to the Division
13 that it's going to have takeaway capacity; right?

14 A. Uh-huh.

15 Q. Okay. And I guess, if that's the scenario, you
16 don't normally see or anticipate that the Division is going
17 to do its own analysis, for example, and second-guess that,
18 or is that what you envision?

19 A. I don't envision the Division doing an analysis.
20 What I envision is, one, we look at the operator's analysis,
21 and two, if something else comes up. Like I said, we have
22 seen a variety of different things. We have seen
23 information come from the BLM where they are not granting
24 specific right-of-way approvals or State Land Office where
25 right-of-way approvals are being held for a specific reason

1 for a specific operator. So this would address all of
2 those.

3 Q. Okay. All right, now, there was an issue that
4 came up, Mr. Powell, just recently. And as you know, you
5 know this rule, you know it can be a little confusing;
6 right?

7 A. Certainly.

8 Q. All right. And it has -- let's start then with
9 this 27.8.E.4 Okay? So I'm going back up here, it's going
10 to be on Page 3 and 4 of NMOGA's Exhibit 2A.

11 MR. AMES: NMOGA's Exhibit 2A? Or OCD's Exhibit
12 2A?

13 MR. FELDEWERT: Thank you, Eric. It's OCD's
14 Exhibit 2A.

15 Q. And it has to do with Subpart B, which is the
16 allowable flaring or venting circumstances. Okay, Mr.
17 Powell?

18 A. Okay.

19 Q. Now, this is previously discussed, and one of the
20 allowances there is gas that does not meet pipeline specs,
21 okay, down there in D.k -- D.1.k, and then -- no, I'm sorry,
22 D.5.k, and then the other one that was talked about was the,
23 under Subparagraph 1, the commissioning of pipeline
24 equipment or facilities for as long as necessary to purge
25 introduced impurities, okay? Were you here for that

1 discussion?

2 A. I was.

3 Q. All right. Now, this section addresses the
4 subject of what is authorized to -- or what flaring or
5 venting event is authorized, Mr. Powell; isn't that right?

6 A. That is correct.

7 Q. Okay. This does not come into play when you are
8 calculating the gas capture?

9 A. Correct.

10 Q. All right. Because as I understand it, when we
11 get down to Part 27.9 and we're dealing with the natural gas
12 capture requirements, and we're into the accounting section,
13 that what comes into play for the natural gas capture
14 requirements are the reporting categories that are
15 identified in Subpart G.2?

16 A. Correct.

17 Q. Is that how you understand it?

18 A. Yes.

19 Q. And in fact, when you look here I see references
20 not to 27.8.D but to Subsection G and various reporting
21 categories there. If you have -- and under G(2), I'm there
22 now on Page 6, G(2) requires operators under Subpart H to
23 separately report H-little-i and little-i-two,
24 H-little-i-two dealing with oxygen; right?

25 A. That is correct.

1 Q. Okay. It does not, for example, in this section,
2 deal with the cause for oxygen being a reason for gas being
3 out of pipeline specs, that I see. Do you, Mr. Powell?

4 A. There is not a cause listed.

5 Q. In other words, there is nothing in here that
6 addresses the reason for O² being in the gas stream such as
7 the commissioning of equipment, that I see, right,
8 Mr. Powell?

9 A. That is correct, there's not a -- the causes
10 aren't listed.

11 Q. Okay. And when it comes to then calculating the
12 gas capture, and what is counted against an operator, and
13 what is not counted against an operator, those categories
14 are dependent upon what's reported here in G(2); right?

15 A. Correct.

16 Q. Okay. And when we go down here to the
17 calculation method, under B, we see down here in the new B.3
18 that excused -- that's what's excused from the gas capture
19 requirement and thereby not held against an operator is by
20 the natural gas vented or flared pursuant to Subpart
21 H-little-i-one, which would be the, would be the failure to
22 meet pipeline specs; right?

23 A. Correct.

24 Q. For nitrogen, CO² and H²S. Is that how you
25 understand it?

1 A. Uh-huh.

2 Q. What's that?

3 A. Yes. Yes.

4 Q. It does not have any excuse in here for failure
5 to meet pipeline specs based on oxygen content?

6 MR. AMES: Is that a question?

7 Q. Is that correct, Mr. Powell?

8 A. That is correct.

9 Q. Okay. So the way this rule is currently drafted,
10 if an operator has commissioned equipment and is failing to
11 meet pipeline specs because of the introduction of oxygen in
12 the system during that commissioning, this paragraph does
13 not excuse that from the gas capture requirements.

14 A. That's correct. We specifically didn't excuse
15 oxygen as part of the allowed gas or the gas that didn't
16 count because we felt the oxygen was typically under the
17 operator's control.

18 The situations where oxygen would be introduced
19 as part of the normal operations would be relatively minor.
20 However, by having oxygen in there, it could be a
21 constituent that could be abused by operators, in certain
22 circumstances, to allow for venting and flaring if they
23 didn't operate their operations appropriately.

24 Q. But what I'm -- I want to be sure I'm correct
25 here, Mr. Powell, but as I understand it then, if an

1 operator has commissioned equipment and is required to vent
2 or flare during commission, okay?

3 A. Uh-huh.

4 Q. That that venting or flaring activity is counted
5 against them when it comes to the gas capture requirement?

6 A. Yes, as it's written now it's a generalized
7 statement based off of oxygen. I think if --

8 Q. Even though there's a legitimate reason for
9 venting and flaring, it has nothing to do with poor
10 operations, it counts against the operator as this rule is
11 currently written?

12 A. I guess my question is, it almost sounds like
13 maybe you are asking that commissioning of equipment be a
14 separate category?

15 Q. It's not in there now; right?

16 A. It's not in there now. Well, it's not in there
17 now as far as the reporting side of it.

18 Q. The gas capture requirement?

19 A. Correct.

20 Q. Even though it's an authorized venting and
21 flaring event under D(4)?

22 A. It is an authorized venting and flaring event.
23 And I would like to point out there is other authorized
24 venting and flaring under D(4) that still counts against the
25 operator's gas capture requirement. That was one of the

1 reasons why we have the two-percent requirement and the
2 98-percent is to allow for some of those operations to take
3 place.

4 Q. Okay. So what I want to make clear, though,
5 because it was not clear this morning or I think even
6 yesterday, is that even though Subparagraph D(4) authorizes
7 venting and flaring during commissioning activities, that
8 those volumes are counted against the operator when it comes
9 to the gas capture percent?

10 A. I would say that would be correct. So it would
11 be intrinsic on the operator to reduce that venting and
12 flaring during commission to as much as possible.

13 Q. And then by the same token, if there is the
14 introduction of oxygen into the system that causes gas to be
15 out of pipeline specs for legitimate reasons, that that,
16 too, counts against the operator's gas capture requirements?

17 A. Yes, the way it's written it's for legitimate or
18 illegitimate reasons.

19 Q. Okay. And the same is true for emissions from
20 normal operations that are to be expected. That, likewise,
21 currently is counted against an operator when it comes to
22 the gas capture requirement?

23 A. Can you state which normal operations or which
24 categories you are specifically referencing?

25 Q. Any normal operations other than pneumatics;

1 **right?**

2 A. Let's see. I know pneumatics is one that doesn't
3 count against emergencies. For the most part, it's
4 operations that are outside of the operator's control that
5 won't count against them. The operations that are under an
6 operator's control, they have that two-percent allowance.

7 Q. But wait. We heard from earlier testimony that
8 there were normal emissions that occur that are outside the
9 operator's control that happen as part of normal operations;
10 **right, Mr. Powell?**

11 A. I think that was phrased a little bit differently
12 earlier. I think there's normal operations that are
13 required for production. I wouldn't say they're outside of
14 the operator's control.

15 Q. Okay. And those would be counted against, in
16 other words the operators would be penalized in the sense
17 that it's counted against their gas capture even though it's
18 outside their control?

19 MR. AMES: Objection, form of question. Not
20 clear what categories of -- of what volumes Mr. Feldewert is
21 referring to in his question.

22 HEARING EXAMINER ORTH: Would you clarify,
23 please, Mr. Feldewert?

24 BY MR. FELDEWERT:

25 Q. **Mr. Powell, back to Subpart D, right, okay,**

1 venting and flaring events. Normal operation of storage
2 tank and other low pressure production vessels, those are
3 counted against an operator's gas capture; right?

4 A. That is correct.

5 Q. Normal operation dehydration units, amine
6 treatment units, counted against the gas -- operator's gas
7 capture?

8 A. I would -- you know, if we are going to go one by
9 one, I would have to compare it with the reporting criteria
10 to see if each and every one is in the reporting criteria.

11 I would, you know, and I understand Eric objected
12 earlier, but your statement that an operator would be
13 penalized by reporting that production, I would say that
14 they are not penalized for reporting that production unless
15 they report that production in excess of their allowed gas
16 capture percentage. Because there's that percentage that's
17 allowed in there, and as long as that percentage isn't
18 exceeded and that percentage starts with a five-year
19 process, as long as that percentage isn't exceeded, there is
20 not a penalized area for that because they would still be in
21 compliance.

22 Q. I think you and I can differ on how you look at
23 it; right? I mean, we're talking about normal operations
24 that -- where you have emissions that the operators cannot
25 control.

1 MR. AMES: Objection, Counsel is testifying.

2 HEARING EXAMINER ORTH: Right. Mr. Feldewert,
3 would you move along, please.

4 MR. FELDEWERT: Sure. Sure.

5 Q. When it gets to this reporting category down here
6 in G.2, Mr. Powell, where it says "other," do you see that?

7 A. Yes, I do.

8 Q. It's G(2), it's 27.8.G(2) and right now it's
9 labeled Subparagraph M, as in "Mary."

10 A. Correct.

11 Q. What is included in "other"?

12 A. Venting and flaring that is not included in the
13 categories above.

14 Q. How is that, if anything that's then put into
15 "other," how is that treated for gas capture reporting?

16 A. It's, I believe, counted against your gas capture
17 percentage.

18 Q. Always, no matter what the circumstance?

19 A. There's not a provision written in there to
20 identify each one. I think the other is intrinsic to
21 understand the total volumes in the state. If we didn't
22 have an "other" in there, instead of having 15 categories,
23 we might have a hundred.

24 Q. I want to ask you about the request to report to
25 overriding royalty interest owners on a monthly basis.

1 **Okay, Mr. Powell?**

2 A. Okay.

3 **Q. So I'm down here in G(4). Can you tell me when**
4 **this monthly reporting is supposed to start under this rule?**

5 A. There is not a specific time frame, so I would
6 say as written, with the adoption of the rule.

7 **Q. Okay. Not when operators are to begin monthly**
8 **reporting to the Division, which I think is January 2022?**

9 A. Correct.

10 **Q. This would come into effect immediately upon the**
11 **adoption of the rule?**

12 A. That's correct.

13 **Q. Okay. And how does the Division anticipate**
14 **operators start to provide this information to royalty**
15 **interest owners, and by definition, overriding royalty**
16 **interest owners?**

17 A. I would say as written, we haven't defined
18 exactly how that is to happen. We imagine the operators are
19 already in communication with those royalty owners through
20 royalty payments, those kind of things. So whatever means
21 is currently used to give them the information they are
22 getting otherwise, I would assume operators would use that
23 same process. But if they want to develop a separate
24 process to inform them, that would be between the operator
25 and they royalty owner, more on the operator's end to

1 develop that.

2 Q. So as part of this, your assumption is that an
3 operator is communicating with each and every royalty and
4 overriding royalty interest owner on a monthly basis?

5 A. I would -- yes.

6 Q. Okay. What do you expect the operators to
7 provide to each royalty and overriding royalty interest
8 owner?

9 A. I think it states in the rule, a volumetric and
10 percentage basis of their mineral estate that was vented or
11 flared.

12 Q. And I believe you mentioned and the rule says by
13 the well on a monthly basis; right, Mr. Powell?

14 A. That's correct, by the well.

15 Q. So it's to be broken down for each royalty and
16 overriding royalty interest owner on a monthly basis for
17 each well in which they have an interest. That's your,
18 that's what you're suggesting?

19 A. That's what's written. The intent is for you to
20 inform the royalty owner of any wasted natural gas that
21 would normally be --

22 Q. What if an operator does not pay royalty -- an
23 overriding royalty interest owner?

24 A. They would probably have to figure out another
25 system.

1 Q. Because you're aware, are you not, that in some
2 contractual circumstances, you have an operator, let's say
3 of a spacing unit, that contains a number working interest
4 owners; right, Mr. Powell?

5 A. I am not up to date on all operational
6 contractual issues.

7 Q. Okay. Well, I will represent to you that if you
8 look at the Division's records, you will see that spacing
9 units are routinely formed that contain acreage held by
10 various different working interest owners. Okay,
11 Mr. Powell?

12 A. I'll take your word for it.

13 Q. And are you aware that each of those working
14 interest owners will have their own individual royalty and
15 overriding royalty interest owners that are burdening their
16 interests. Are you aware of that?

17 MR. AMES: Objection, Counsel is testifying under
18 the guise of asking leading questions. The witness has
19 already said he has no idea about any of these contractual
20 relationships, and it extends beyond the scope of his
21 testimony.

22 HEARING EXAMINER ORTH: All right.
23 Mr. Feldewert, he has said, in fact, that he is not up on
24 the contractual relationships between royalty interest
25 owners and the production operators. Perhaps NMOGA could

1 give its own testimony on this point.

2 BY MR. FELDEWERT:

3 Q. Okay. So you haven't looked -- you haven't
4 looked into it, Mr. Powell; correct?

5 A. No, I have not.

6 Q. And neither has anybody at the Division, in terms
7 of implementing or putting this provision in place?

8 A. I believe we looked at part of it as far as what
9 some of the royalty payments look like, those kind of
10 things, but as far as going into contractual obligations, I
11 don't know that we would even have access to that because
12 it's contractual between the operator and the royalty owner.

13 Q. Actually, to be more specific, it would be
14 between the working interest owner and the royalty owner;
15 right, Mr. Powell?

16 A. I would assume -- I am assuming you are correct
17 because I don't know.

18 MR. FELDEWERT: Okay. That's I believe, all the
19 questions that I have. Thank you.

20 HEARING EXAMINER ORTH: Thank you very much,
21 Mr. Feldewert. Mr. Biernoff, are you with us?

22 MR. BIERNOFF: Yes, I am here, Madam Hearing
23 Officer. Thank you.

24 CROSS-EXAMINATION

25 BY MR. BIERNOFF:

1 Q. I have a few questions for you, Mr. Powell.

2 Mr. Powell, are you able on your screen to call up Oil
3 Conservation Division exhibits?

4 A. I am. I can.

5 Q. Okay. I would appreciate your assistance with
6 that, and I'm specifically interested in OCD Exhibit 2A.

7 HEARING EXAMINER ORTH: Mr. Feldewert, would you
8 mute yourself, please.

9 A. It should be up now.

10 Q. Thank you so much. And if we could go to
11 19.15.27 and specifically to F, like Friday, measurement of
12 vented and flared natural gas. Thank you.

13 And I want to ask you, Mr. Powell, in F like
14 Friday, 2, there is language at the end of that provision
15 limiting this requirements of this provision to facilities
16 or wells with certain production volumes; right?

17 MR. AMES: Mr. Biernoff, if I may interrupt
18 briefly. The Division has filed Exhibit 4B which contains
19 the current version of the Division's proposal for this
20 section. So it's probably, to avoid confusion, it probably
21 would be better to look at that version on the screen.

22 MR. BIERNOFF: Much appreciated, and that makes
23 good sense to me.

24 Q. Mr. Powell, if I can trouble you to switch over
25 to Exhibit 4B. You have done that, thank you. And so

1 looking at that language, I had asked just to get us
2 oriented, does this provision F.2 limit the requirements of
3 the -- the substantive requirements of the provision to
4 wells or facilities that have certain production volumes?

5 A. That is correct.

6 Q. And why is the reference to ten barrels of oil
7 struck out? What was the purpose of that change?

8 A. So the purpose of that change, Matt previously
9 testified earlier, is this being a venting and flaring rule
10 dealing with methane waste from venting and flaring, the use
11 of oil in it was probably not as applicable because there
12 could be oil wells that produce upwards of hundreds of
13 barrels of oil with no associated gas.

14 So we wanted to make sure that this rule was
15 specifically written to just address the gas waste from
16 venting and flaring.

17 Q. Okay, thank you. And what are the consequences,
18 Mr. Powell, for an operator that does not comply with the
19 provisions of F.2 that we're looking at here?

20 A. I would say that if operators don't comply with
21 the provisions of any part of the rule, they are opening
22 themselves up to enforcement and compliance under our
23 enforcement discretion.

24 Q. And what specifically are the consequences that a
25 non-compliant operator, non-compliant with F.2, could face?

1 A. I think the provisions under our enforcement rule
2 are we can revoke APDs, we can shut in wells, we can curtail
3 production, we can issue penalties. So I would say those
4 would all apply to any compliance, whether it be F.2 or any
5 other provision.

6 **Q. Is the Oil Conservation Division prepared to take**
7 **the sort of enforcement action that you just described**
8 **against non-compliant operators?**

9 A. I would say yes, if there is an issue with
10 non-compliance, it's our duty to start looking at our
11 enforcement capabilities and what we need to do to enforce
12 those. It's something that we have built in our process for
13 other compliance issues.

14 **Q. How did the Oil Conservation Division decide the**
15 **appropriate cutoff in terms of production -- of volume of**
16 **production of gas for purposes of compliance with F.2?**

17 A. So where this volume comes from, and it actually
18 started with a stripper well provision as part of tax and
19 royalty and tax incentives, so it's a statewide established
20 threshold for the ten barrels and 60,000 MCF of gas -- or 60
21 MCF of gas, 60,000 cubic feet are used, so it's already a
22 standard volume used to identify wells in the state, both by
23 the OCD and by Tax and Rev, and possibly even SLO.

24 So we started with that provision and that's
25 where the ten barrels of oil actually got crossed over and

1 brought into this rule is we just grabbed the whole
2 provision as far as volume and we put it in this rule and
3 later determined that the oil probably isn't as applicable
4 as the gas in this scenario.

5 Q. Let me ask my question in a different way. Why
6 is it that the Oil Conservation Division determined that
7 wells or facilities that are producing 60,000 cubic feet of
8 natural gas or less should not be subject to the requirement
9 of F.2?

10 A. Oh, okay. I see your question now. So the
11 reason why we used that is those wells historically have
12 been deemed where they are marginal or on the verge of being
13 uneconomic. So by bringing them into the higher standard,
14 it could force them to be uneconomical and be prematurely
15 plugged.

16 Q. Okay. When you say that it could force them to
17 be deemed uneconomical, what kind of analysis did the Oil
18 Conservation Division do to support that inference or that
19 assumption?

20 A. We didn't do a full economic analysis. When it
21 refers to 60 cubic feet of natural gas per daily average,
22 that could be anywhere from 2 MCF a day, MCF is 2000 -- or
23 MCF is 1000. It could be from very minor production up to
24 that 60,000. So we didn't do an economic analysis
25 specifically to that 60,000.

1 Q. Okay. And has the Oil Conservation Division
2 determined the range of costs for installing the equipment
3 that's called for in F.2?

4 A. No, because it -- first off, I would say, no, we
5 haven't, and I would say it would be very hard to do as far
6 as range of costs because it would depend on a particular
7 well and how many different streams or lines that are
8 running through there.

9 I would also state, typically the stripper wells
10 that are referenced here are the low-volume, low-production
11 wells that were previously testified by Jim on that are very
12 hard to reasonably meter because of that low volume or low
13 flow.

14 Q. Okay. So I guess I'm a little bit confused. Is
15 the reason for the exemption from the, from the metering
16 equipment requirement that these lower producing wells or
17 facilities are hard to meter, or is it that they're -- that
18 it's not economical to do it?

19 A. I would say it's probably both.

20 Q. 50-50?

21 A. I, you know, I hate to give a percentage because
22 I don't have an analysis, but I would say a majority of
23 these low-flow wells, or stripper wells if you want to call
24 them that, would be in the low-flow, low-volume capacity.
25 There may be some that you could economically put a meter

1 on, but I haven't done that analysis.

2 Q. Okay. Has anyone else at Oil Conservation
3 Division that you know of done that analysis?

4 A. Not that I'm aware of. And just to reference, I
5 think the original's ten barrels, 60,000, was probably
6 related to a historical analysis because at one point there
7 was tax incentives because of economics for wells that
8 produced under those thresholds.

9 Q. Has Oil Conservation Division conducted any
10 analysis of the methane emissions that are specifically
11 linked to wells or facilities that are exempt from the
12 requirements of F.2?

13 A. We have not. Specifically we haven't done any
14 reviews of emissions themselves. We did it more from a
15 waste perspective instead of an air quality perspective.

16 Q. And has the Oil Conservation Division undertaken
17 any analysis, I think you may have addressed this in
18 answering one of my earlier questions, of the actual costs
19 of compliance with F.2 for the wells that are, under this
20 version of the rule, exempted from compliance?

21 A. No, we have not.

22 MR. BIERNOFF: Okay. Mr. Powell, thank you very
23 much.

24 Madam Hearing Officer, I will pass the witness.

25 HEARING EXAMINER ORTH: Thank you, Mr. Biernoff.

1 Ms. Fox, do you have questions of Mr. Powell?

2 MS. FOX: No, we do not, Madam Hearing Officer.

3 Thank you.

4 HEARING EXAMINER ORTH: Thank you. Ms. Paranhos?

5 MS. PARANHOS: Thank you, Madam Hearing Officer.

6 I do just have one clarifying question for Mr. Powell. And
7 if you could keep up the exhibit for me, maybe that would
8 help me just to guide you to the provision.

9 CROSS-EXAMINATION

10 BY MS. PARANHOS:

11 Q. So I'm looking at what I believe is 8.G(2)M as in
12 Mary.

13 A. 4(B) is just over the statement production.
14 Would you like me to pull up 2B or 2?

15 Q. Sorry, yes, 2, the redline that shows the most
16 recent changes to the reporting requirements.

17 A. And you said 8.G?

18 Q. Yes, 8.G.2.M, as in Mary, it's the very last
19 category in the monthly reports, it's the "other not
20 described above."

21 I am just curious how an operator would know what
22 to include in that "other" category since the categories are
23 not explicitly listed in the rule.

24 Are you able to answer that question?

25 A. I would answer it similar to the way I answered

1 it to Mr. Feldewert. I would say that any venting or
2 flaring that's not included in the provisions above would be
3 reported to "other."

4 MS. PARANHOS: Great, thank you. That's all the
5 questions I have.

6 HEARING EXAMINER ORTH: Thank you, Ms. Paranhos.

7 Commissioner Kessler, do you have a question for
8 Mr. Powell? Commissioner Kessler?

9 COMMISSIONER KESSLER: I'm here. I do not have
10 any questions. Thank you.

11 HEARING EXAMINER ORTH: Thank you. Commissioner
12 Engler, do you have a question for Mr. Powell?

13 COMMISSIONER ENGLER: No, I do not. Thank you.

14 HEARING EXAMINER ORTH: Thank you. And Madam
15 Chair?

16 CHAIRWOMAN SANDOVAL: I only have a couple. One,
17 do you support this rule?

18 THE WITNESS: I do.

19 CHAIRWOMAN SANDOVAL: Do you feel like it was a
20 collaborative process?

21 THE WITNESS: I do, and I would even elaborate on
22 that a little bit. I've been with the Division for probably
23 15 years or almost 15 years, and I would say this is
24 probably a more collaborative overall effort than I've ever
25 seen in a rulemaking.

1 CHAIRWOMAN SANDOVAL: Thank you. I actually
2 don't have too many questions; they have been answered in
3 one way or another. And I know this hasn't come up yet and
4 maybe rebuttal testimony will be a more appropriate place.

5 HEARING EXAMINER ORTH: Hold on, Madam Chair.
6 Ms. Fox, would you please mute yourself.

7 CHAIRWOMAN SANDOVAL: Let's see. In 27.D, it
8 would be 3, and so it's not in the Division's version, it's
9 a proposal by EDF. I just wondered if you had any comments
10 on the feasibility, or practicality, or position at all,
11 but, again, if -- I'll read it to you -- if this is more
12 suited for rebuttal testimony, that's fine.

13 Okay. So it says the -- it's under the venting
14 and flaring during production operations. "The operator
15 must notify the Division at least 48 hours prior to
16 conducting uploading or well clean-up. Clean-up activities,
17 except where the operator must act more quickly in order to
18 minimize waste, in these cases the operator must notify the
19 Division as soon as possible prior to conducting uploading
20 for well clean-up activities."

21 Do you have any comments on that?

22 THE WITNESS: I did review that. We did look at
23 it, we did not look to adopt it. In my opinion, it would
24 add potentially hundreds of notifications to the Division a
25 day, depending on different operations that are going on in

1 the state.

2 So why that venting and flaring is still being
3 captured under the reporting section, I didn't feel that --
4 or we didn't feel that the inclusion of it with a 24-hour
5 reporting function would be beneficial for the Division.

6 CHAIRWOMAN SANDOVAL: Okay. You talked about on
7 one of your slides, which I don't have up at the moment, why
8 some of the pipeline mapping requests were or were -- not
9 requests -- pipeline mapping requirements within the rule
10 were included -- I think it might be helpful for me to
11 understand what the challenges are for the Division in some
12 of those cases, you said, you know, there have been problems
13 where -- I don't remember your exact words, but where there
14 has been some sort of release and the Division doesn't know
15 whose pipe it is.

16 Can you just walk through an example scenario of
17 what that might entail? That would be helpful. And I mean,
18 without including any sort of operator location or
19 information, please.

20 THE WITNESS: So I'm going to use a very
21 generalized example that is similar to things we've seen and
22 may not be specific to a specific instance. But say there's
23 a gas release in an area that has H²S involved. You can't
24 get close to their actual release point because of the H²S
25 involved until you get air packs, those kind of things, to

1 safely respond.

2 The Division doesn't have a way to identify those
3 pipelines that are in that radius to see who those operators
4 may be so the shutdown process could get started. There is
5 times where we've worked with emergency management where
6 they weren't able to quickly identify whose pipelines those
7 are either, especially if it's in relation to like a
8 pipeline corridor where there could be seven different
9 pipelines in an area and we can't identify who all the
10 operators in that corridor are.

11 So by having this information and having this
12 information both current and knowing what we are dealing
13 with as far as what kind of pipelines, one, the current so
14 we know who all to contact, and then if say the pipeline is
15 exposed and we know that it's an eight-inch pipeline and all
16 of the pipelines in that corridor are four-inch except for
17 one main eight-inch transmission line, we know exactly whose
18 pipeline that was so we can get that pipeline properly shut
19 in, reducing that risk to human health and the environment.

20 CHAIRWOMAN SANDOVAL: So you believe it prevents
21 waste?

22 THE WITNESS: I do.

23 CHAIRWOMAN SANDOVAL: And it would also protect
24 human health and the environment?

25 THE WITNESS: Absolutely.

1 CHAIRWOMAN SANDOVAL: Okay. Thank you, I think
2 that adds some context. I'm trying to figure out what I
3 said on this next note I wrote. Hold on. In 28, Part
4 28.8.C.1, in part of the -- in part of 1 towards the end, it
5 says a plan should include procedures to reduce leaks and
6 releases such as routine maintenance, blah, blah, blah. I'm
7 wondering if leaks and releases is a little duplicative or
8 if something different is intended by those two terms?

9 THE WITNESS: I think they are duplicative. I
10 think some people refer to them as leaks and some people
11 refer to them as releases. In our rules we always refer to
12 them as releases in Part 29 which is our (unclear) rule, so
13 I think it probably is duplicative.

14 CHAIRWOMAN SANDOVAL: Okay. Thank you. And then
15 I just had a question on stripper wells or the wells that
16 are exempted that are over -- I'm sorry -- under the 60 MCF.
17 Other than the exemptions for metering and flaring, are they
18 covered by the rule and AVO, in AVO there's a different time
19 frame, are they completely covered by this rule?

20 THE WITNESS: They are. But again, I would say
21 that the areas where you mentioned exemptions, they're not
22 specific exemptions. Under the meter there is an exemption
23 for meter, but they still have to provide the
24 estimations and the accounting that go along with that. For
25 the flares, if they go out to retrofit that flare, they have

1 to bring it to current design. So I would say it's more of
2 allowing that different method than it would be a straight
3 exemption because they are still covered by the rules.

4 CHAIRWOMAN SANDOVAL: Okay. In some of those
5 low-flow, low-pressure instances, and maybe this would have
6 been more appropriate for Mr. Bolander, but is the
7 measurement, it sounds like not feasible?

8 THE WITNESS: So Mr. Bolander would be better
9 assessed to answer this, but I will answer it based on the
10 information I have gained from him through this process.
11 Measurement of the low flow, low pressure is more
12 infeasible, correct.

13 CHAIRWOMAN SANDOVAL: Okay. Do you believe that
14 this rule can still achieve the waste reductions for low
15 flow or, you know, the stripper wells just as much so as it
16 does for non-stripper wells?

17 THE WITNESS: Yes. Because their estimations
18 have to be independently verifiable. They have to give us
19 the methods that they are going to be using initially. And
20 any time they change those methods, they have to give us
21 updates to those changed methods. So we are still getting,
22 in my opinion, competent information of the venting and
23 flaring from those wells.

24 CHAIRWOMAN SANDOVAL: Okay. Thank you. I think
25 that is my last question. Thank you, Mr. Powell.

1 THE WITNESS: Thank you, Madam Chair.

2 HEARING EXAMINER ORTH: Thank you, Madam Chair.

3 Mr. Ames, do you have any follow-up for

4 Mr. Powell?

5 MR. AMES: Madam Hearing Officer, I have no
6 redirect, and I ask that Mr. Powell be excused.

7 HEARING EXAMINER ORTH: Thank you very much,
8 Mr. Powell, for your testimony and you are excused.

9 MR. AMES: Madam Hearing Officer, that concludes
10 OCD's direct case.

11 HEARING EXAMINER ORTH: Thank you, Mr. Ames. So
12 we have been going just for an hour. Let's talk about what
13 happens next as if I remember it. Mr. Feldewert has already
14 offered his opening statement, so I believe, Mr. Feldewert,
15 that we would go directly into your witnesses.

16 I have just one question there, whether you would
17 be presenting your witnesses in the order in which you
18 identified them in your prehearing statement or whether you
19 are planning a different order?

20 MR. FELDEWERT: I think at this point the initial
21 set of witnesses, one, two, three and four, I think, will be
22 in that order. And I'm prepared to go with our first
23 witness, Mr. Smitherman, if you can give me maybe ten
24 minutes to kind of reset here?

25 HEARING EXAMINER ORTH: Yes. I would like to

1 take a ten-minute break before you start. So let's take ten
2 minutes and come back at 3:37. Thank you.

3 (Recess taken.)

4 HEARING EXAMINER ORTH: We are back after a
5 break. Having finished direct presentation of the Oil
6 Conservation Division, we move now to the direct
7 presentation of New Mexico Oil & Gas Association.

8 Mr. Feldewert, if you would, please.

9 MR. FELDEWERT: Yes. Thank you, Madam Hearing
10 Officer. The first witness we will call is Mr. John
11 Smitherman who I believe is on the screen.

12 HEARING EXAMINER ORTH: All right.

13 Thank you, Mr. Smitherman, if you would please
14 raise your right hand. Do you swear or affirm that the
15 testimony you are about to give will be the truth, the whole
16 truth and nothing but the truth?

17 THE WITNESS: Yes, ma'am, I do.

18 HEARING EXAMINER ORTH: Thank you. If you would
19 spell your name for the record.

20 THE WITNESS: Last name is Smitherman,
21 S-m-i-t-h-e-r-m-a-n.

22 HEARING EXAMINER ORTH: Thank you. Whenever
23 you're ready, Mr. Feldewert.

24 MR. FELDEWERT: Sure.

25

1 JOHN R. SMITHERMAN

2 (Sworn, testified as follows:)

3 DIRECT EXAMINATION

4 BY MR. FELDEWERT:

5 Q. Would you please state your name again and
6 identify by whom you are employed --

7 A. Certainly.

8 Q. -- and in what capacity?

9 A. My name is John R. Smitherman. I'm currently
10 employed by New Mexico Oil & Gas Association or NMOGA. I'm
11 a senior advisor.

12 Q. Mr. Smitherman, do you have a degree in petroleum
13 engineering?

14 A. Yes, sir.

15 Q. How long have you been working in the oil and gas
16 industry?

17 A. Roughly 40 years.

18 Q. If I turn to what's been marked as NMOGA
19 Exhibit C --

20 MR. FELDEWERT: -- which, Madam Chair, Members of
21 the Commission, it should be in a large black binder that
22 was provided to the Commissioners. There is NMOGA exhibits
23 -- it has NMOGA's prehearing statement at the beginning of
24 it, and then NMOGA's Exhibits C through M. If you all have
25 that in front of you, I intend to largely utilize that along

1 with their other notebooks, rather than trying to maneuver
2 around the screen.

3 Q. So if we turn to NMOGA Exhibit C, Mr. Smitherman,
4 do the first two pages, C1 and C2, accurately summarize your
5 educational background and work experience?

6 A. Yes.

7 Q. This indicates that your work experience has been
8 focused on the Permian Basin of New Mexico and Texas; right?

9 A. It has. Almost all of it. For about six years
10 before that, it was mostly Texas and Louisiana Gulf Coast,
11 but other than that, very much focused on the Permian Basin
12 in Texas and New Mexico.

13 Q. And it indicates that over time you began to, to
14 manage various operations. But do you have, you know, field
15 experience, Mr. Smitherman?

16 A. I've got a tiny bit of field experience, actual
17 hands-on, mostly summers while I was in college. But as
18 basically an operations manager of production operations and
19 drilling, I was in the field a lot.

20 Q. Did you manage a number of field workers?

21 A. Oh, yes. I have probably had hundreds under my
22 responsibility through my career.

23 Q. And eventually, as you moved through your career,
24 you became vice president of operations; right?

25 A. That's correct.

1 Q. Okay. Does your 40 years of experience include
2 New Mexico vertical and horizontal well development?

3 A. It does, vertical, horizontal, oil and gas.

4 Q. So have you -- you have actual experience then in
5 drilling wells?

6 A. Yes, I have actually set wells from spud to
7 completion, but that was in my training phases. I have been
8 a drilling supervisor, so I managed a group of drilling
9 engineers and oversaw drilling operations --

10 Q. And that would then --

11 A. -- in my career.

12 Q. Would that include completing and start-up
13 operations?

14 A. It did. As our company grew, we did finally
15 split the drilling and completions away from production
16 operations, but for most of my career, production operations
17 included the regular operations and normal day-to-day
18 production, but also drilling and completions.

19 Q. And do you intend to draw on that experience in
20 conducting -- or in addressing each of these different
21 phases with the Commissioners?

22 A. Certainly.

23 Q. Do you also then have, as a result of your
24 employment, actual experience in operating and maintaining
25 wells for their productive life?

1 A. Yes, absolutely.

2 Q. Have you become, as a result of your work
3 experience, familiar with the infrastructure of oil and gas
4 operations?

5 A. Absolutely. We, in fact, owned infrastructure
6 from both upstream infrastructure and midstream as well.

7 Q. When you say midstream, when you say midstream,
8 does that include gathering systems?

9 A. Yes, specifically gas gathering, water gathering,
10 if you will, and even water gathering systems.

11 Q. And in fact Mr. Smitherman, did you manage
12 gathering operations for a period of time?

13 A. We did. I should say I did, yes.

14 Q. So you are familiar with the challenges that are
15 involved?

16 A. Yes.

17 Q. Your resume indicates that you're a member of the
18 Society Of Petroleum Engineers?

19 A. Yes, sir.

20 Q. Is that -- what type of organization is that?

21 A. It's a professional development organization.
22 It's worldwide. The Society of Petroleum Engineers
23 basically exchanges information, helps develop engineers and
24 provides a forum for discussions of new ideas.

25 Q. And have you been honored as being a

1 distinguished lecturer for that organization?

2 A. I am. In fact, I'm in my distinguished lecture
3 season right now.

4 Q. Okay. Mr. Smitherman, are you familiar with
5 NMOGA's proposed modifications to the Division's rules?

6 A. Yes, I'm very much familiar with them.

7 Q. And those are contained in separate binders that
8 we have provided to the Commissioners; correct?

9 A. That's correct.

10 Q. The small white binder that's been provided would
11 contain the proposed modifications to Part 28 -- 27, I mean?

12 A. That's correct. That would be Exhibit A, I
13 believe.

14 Q. Okay. And NMOGA's Exhibit B would be in a black
15 binder, and that would contain NMOGA's proposed
16 modifications to Part 28?

17 A. That's correct.

18 Q. Okay. Do you intend to walk through those
19 changes with the Division?

20 A. I do, I'll give an overall summary of all of the
21 modifications.

22 Q. Okay. Can you essentially discuss the reason for
23 these changes?

24 A. Certainly. Let's back up a second here. When
25 the informal proposed rule came out last summer, NMOGA and

1 IPANM basically put together a team of experts from many,
2 many disciplines to review these rules.

3 Q. When you say IPANM, you mean -- that's IPA New
4 Mexico?

5 A. That's IPA New Mexico, that's correct.

6 Q. Okay.

7 A. So when I, in fact, if you will, Commissioners
8 and others, when I say NMOGA, also think IPANM, IPA New
9 Mexico, because they have collaborated with us in reviewing
10 these rules and crafting the suggested modifications.

11 Q. Okay. Now, on these suggested modifications,
12 when I looked at these notebooks, these modifications, we
13 got them paginated for easy reference; right?

14 A. Exactly.

15 Q. Okay. And then the changes are reflected in red
16 editions or black strikeouts; correct?

17 A. That's correct.

18 Q. Okay. When you look through this and you see
19 blue text on these exhibits, what does all of the blue text
20 indicate?

21 A. All of the blue text is in essence narrative.
22 It's explanations for any kind of modifications that NMOGA
23 has authored. And those blue, that blue text should not be
24 considered part of the rule. We only intend for the rule to
25 be modified by either strikeouts or by the additional red

1 marks.

2 Q. Okay. So none of the blue language is proposed
3 language; those are just discussions of the reasons for the
4 proposed language?

5 A. That's correct.

6 Q. Okay. I think I interrupted you. What do you,
7 when you look at this, Mr. Smitherman, what do you generally
8 observe about the rules in the proposed modifications that
9 NMOGA and IPA New Mexico have proposed?

10 A. Sure, thank you, Mr. Feldewert. I want to first
11 off begin by thanking the Commission, Madam Chair,
12 Commissioners and Madam Hearing Examiner, thank you for this
13 opportunity to represent almost all of the oil and gas
14 industry in New Mexico in this important matter. So thank
15 you in advance for your kind attention.

16 As for my observations, first and most
17 importantly, the Division has proposed a requirement on
18 operators of upstream oil and gas well facilities and
19 operators of gathering pipelines and facilities to achieve
20 notion of leading gas capture rate of at least 98 percent by
21 the end of 2026, separately in both the north and the south
22 producing regions.

23 This would be an unprecedented accomplishment by
24 this very important industry to New Mexico. As I think you
25 heard in testimony earlier this week, no other producing

1 state in the US has accomplished such a stringent gas
2 capture requirement. In fact, North Dakota just celebrated
3 a 93-percent capture rate for the single month of September,
4 six years after they put rules in place.

5 This 98-percent gas capture requirement is one
6 that NMOGA and IPANM support, even while we recognize the
7 challenge that it represents. We share the goal of
8 responsible oil and gas operations, and as we do, we also
9 recognize that there are events that are truly out of the
10 control of operators, and those should be viewed
11 appropriately. We have offered modifications to this
12 proposed rule in that regard.

13 We have also offered modifications to the
14 proposed rule that seek to recognize the realities of oil
15 and natural gas operations in the hopes of avoiding the
16 creation of incentives which could lead to unintended
17 consequences or unsafe behaviors while we focus on the
18 efforts to reduce high-pressure flaring.

19 We also note instances where the Division's
20 proposed rules -- I'm going to skip that section. We've
21 already talked about that a lot.

22 We have also proposed rules that seek to increase
23 the collection of data from the industry. We understand the
24 Division needs sufficient data to do their jobs, and we
25 support effective reporting, but note areas, we will note

1 areas, where we think the requests are duplicative, and/or
2 they're excessive, and/or we believe are actually unhelpful
3 because the data being sought are either impossible to
4 report with sufficient accuracy.

5 NMOGA has therefore offered modifications, one,
6 to improve reporting of episodic gas venting and flaring
7 events; two, to make routine monthly reporting more
8 comprehensive; and, number three, to ensure the quality of
9 reported volumes by eliminating reporting of data that
10 cannot be measured or even estimated with sufficient
11 accuracy for production accounting reporting.

12 NMOGA's modifications will actually improve the
13 value of the data the industry reports, and that will be
14 relied upon by the Division and others. Bad data is
15 inappropriate to inform current enforcement for future
16 policy.

17 Further, some of the information the Division
18 seeks is available from already existing sources with no
19 additional effort by operators. Another area -- we see
20 areas of the proposed draft where the meaning of certain
21 passages is not crystal clear. So NMOGA is offering changes
22 that are intended to clarify what we believe were the
23 Division's intent.

24 Finally, to areas of improvement over the
25 informal rule that came out last summer, this includes

1 reduction of the some of the prescriptive measures and
2 relies more on setting goals and letting operators have
3 flexibility to make those goals.

4 So NMOGA applauds those changes, and you will see
5 some support as we move through our modifications. So thank
6 you again for this opportunity to address the Commission
7 today.

8 Q. Okay. What I want to do, Mr. Smitherman, is kind
9 of get down to the nitty-gritty of the actual language
10 changes we have proposed, okay?

11 A. Certainly.

12 Q. So we can talk about those. And I think the best
13 place to start is I want to focus on some definitions where
14 we remain different from what the Division has, has
15 modified. Okay?

16 A. Certainly.

17 Q. So we are going to be skipping back and forth a
18 little bit between what I call the black notebook dealing
19 with Part 28 and the white notebook dealing with Part 27,
20 okay?

21 A. Super. I've got both of them up now.

22 Q. So let's start with the black notebook dealing
23 with Part 28. And one of the areas where we have a
24 remaining language change to discuss involves the definition
25 of new gathering pipeline on Page 3 of NMOGA Exhibit B.

1 It's at the bottom. Do you see that?

2 A. I do see that.

3 Q. Okay. Can you explain why we are ask -- we
4 suggest the Commission add the additional language
5 "constructed and placed in service"

6 A. Certainly. There is a distinction between pipe
7 that might be already in the ground and it's idle and
8 sections of pipe that would be newly constructed, and we
9 wanted to make sure that this rule applied to those newly
10 constructed pieces or sections, if you will.

11 Q. Okay. Then if I look at the definition of
12 malfunction, if we go back maybe a page or two, the
13 definition of malfunction is found on -- I'm sorry, it's on
14 that page right above where we were, I apologize.

15 A. Sure I see it.

16 Q. Now, when we deal with a definition like this of
17 malfunction, it's essentially the same both in Part 27 and
18 in Part 28; right, Mr. Smitherman?

19 A. That's correct.

20 Q. Can you explain why the, the NMOGA believes that
21 the word "substantially" should be removed as well as the
22 word "reasonable"?

23 A. Yes, certainly. Both of those two words take
24 what should be, in essence, clear and makes them subjective.
25 For example, you say an operator, control of an operator

1 that disrupts operations and requires correction.

2 Who is going to decide what is substantial? It
3 seems to us that if you've got a malfunction, you shouldn't
4 have the ability to kind of Monday-morning-quarterback
5 whether that was, quote-unquote, substantial or not.

6 And same thing for reasonable control. The
7 operator either kind of has control of a situation or it
8 doesn't, and putting the word "reasonable" in there creates
9 a subjectivity to it that makes it unclear.

10 Q. So this would, in your opinion, this would assist
11 in providing some regulatory certainty to operators?

12 A. Absolutely, certainty and clarity.

13 Q. Okay. And would cover instructions that would
14 otherwise meet these rather high threshold language that we
15 see here?

16 A. That's correct.

17 Q. Okay. Now, I want to talk about the definition
18 of "emergency." Okay?

19 A. Certainly.

20 Q. And we can probably stay in the same notebook.
21 It's over on Page 1, it carries over to Page 2 of NMOGA
22 Exhibit B. Now, this is set up where you have the basic
23 definition of emergency and then a number of exceptions, Mr.
24 Smitherman. Okay?

25 A. Yes.

1 Q. Again, we see that in the basic definition, NMOGA
2 seeks to strike the word "substantial"?

3 A. That's correct.

4 Q. And is that for the same reasons you just
5 discussed?

6 A. For the exact same reason; this creates a
7 subjectivity to it that reduces certainty and clarity.

8 Q. All right. Now, having said that, I thought we
9 could work from this notebook. I just see that there is a
10 change that's unique to upstream; right, Mr. Smitherman?

11 A. Yes, that's correct.

12 Q. Okay. So, I apologize. Let's move over to the
13 white notebook, under the definition of "emergency," which
14 is on Page 3 of NMOGA Exhibit A.

15 A. Yes.

16 Q. And we see that in Subpart G.2, which is what's
17 unique to this upstream version of emergency, we see where
18 we propose an opening clause be added to this Subpart G.2?

19 A. That's correct.

20 Q. What's the reason for that?

21 A. Well, I'm going to refer you down to Subpart 4
22 first. The Subpart 4 talks about what I'm going to call a
23 short-term event where a midstream facility has become
24 disrupted, shall we say.

25 And so as you deal with the realities that

1 Subpart 4 are aimed at, you've got a situation where the gas
2 takeaway, the gas gathering system has limited capacity.
3 And you look back at Section 2, and it also deals with a
4 situation where the gas takeaway capacity is limited.

5 We wanted to make sure that we didn't conflate
6 the two. In essence, in Item 2 we really are referring to a
7 long-term gas capacity limitation, and in Item 4, you are
8 really talking about a short term. So we are just trying to
9 create clarity with this edition.

10 Q. Okay. Then I'm looking at the, towards the end
11 of G.2 we strike the phrase, "or exceeds sales contract
12 volume of natural gas." Do you see that?

13 A. I do.

14 Q. What's the purpose of that?

15 A. Well, clearly there was a desire from the
16 Division to, in essence, avoid the definition of emergency
17 if an operator exceeded some, maybe some contractual
18 limitation in how much gas an operator could produce.

19 I have never seen such a limitation, and in all
20 of the people that were on our team, literally there's over
21 80 people on our team reviewing these rules over the past
22 six months, we have not seen that, and quite frankly that
23 included both upstream and midstream representatives.

24 So, in essence, I don't see the purpose for that.
25 I don't think it will ever come up. It certainly hasn't

1 come up in my career. And that being the case, then it
2 wouldn't be an issue at all, but it also suggests then that
3 the Division may have a right to review private contracts,
4 and we're concerned about that.

5 So we see no purpose, we see no benefit to the
6 Division to have that language in there and we see some
7 danger, if you will, in it, so we thought best just strike
8 it.

9 **Q. Based on your experience, Mr. Smitherman, do**
10 **these gas sales contracts, do they sometimes reference a**
11 **minimum volume?**

12 A. Well, they can reference a minimum volume. They
13 can also reference, I will call it, a short-term minimum and
14 a long-term minimum, if you will. You can have a minimum
15 volume, but you start having to pay a penalty because you
16 drop below a certain volume. But mostly they will refer to
17 a minimum volume that an operator has to produce to the gas
18 gatherer so that that gas gatherer can, in essence, recoup
19 the capital that they've invested. And there will be a
20 period of time that the operator has to produce that volume,
21 and if he doesn't by that particular time, there are
22 consequences to that.

23 **Q. But in your experience, they don't, for example,**
24 **impose a maximum value?**

25 A. No, I have never seen that.

1 Q. All right. Now I want to talk a little bit about
2 some of the limitations, additional limitations to the
3 exception from emergency, which are important, right,
4 because that means that if they fall within these
5 exceptions, it's kind of against operators for the gas
6 capture purposes?

7 A. That's correct. And those are very important.

8 Q. Okay. And when you look at these exceptions to
9 "emergency" that the Division has put forth, based on your
10 40 years of experience, what should the Commission keep in
11 mind when they look at these exceptions?

12 A. Well, let me give you a little background. I am
13 here today at least partly because I completed this 40 year
14 career in the oil and gas industry, mostly focused on
15 operations. That means I have had 40 years of experience
16 that give me perspective that others may not possess.

17 That includes understanding how to communicate
18 priorities within a company so that employees' efforts are
19 aligned and also understanding employees don't always make
20 the correct decisions, even as they are trying to do right
21 by their employer.

22 So why are both of those two observations
23 important? The oil and gas industry is multidisciplined and
24 logistically complex. In order to meet the difficult
25 challenge of a 98-percent gas capture requirement, we need

1 everyone pulling in the same direction. We need those
2 employees managing drilling schedules, facilities engineers
3 working with reservoir engineers, designing proper
4 facilities, gas marketing professionals doing what they need
5 to do to ensure that adequate takeaway is available when
6 needed.

7 We need field construction crews and their
8 managers doing their part to stay on schedule. Of course we
9 need our field personnel who maintain, operate, and repair
10 our facilities and respond when things go wrong. We need
11 everyone pulling in the same direction if we're going to
12 meet this challenge.

13 So how do you get somebody -- how do you get that
14 whole group aligned? When this rule is passed, operators
15 will make gas capture an even more prominent thing in their
16 communications with their employees. It will be a message
17 to everyone in the company involved in New Mexico. It will
18 involve incident reviews, so that the company can improve
19 their performances; it will be progress reports will be
20 communicated on a routine basis; it will be included in
21 reminders at staff meetings, morning field crew meetings.

22 Gas capture performance will likely be a part of
23 compensation reviews, just as other EH&S metrics are today.
24 It will be a repeated message because that's what it will
25 take to create the aligned team effort needed to be

1 successful in meeting this challenge.

2 The goal of this communication campaign will be
3 to have gas capture on the minds of every employee as they
4 perform their tasks every day.

5 So let's look at emergencies kind of from the top
6 level. There are two main categories of emergencies here,
7 emergencies at midstream facilities that cause upsets at
8 upstream facilities, and emergencies within a single
9 operator's facilities.

10 So let's start by looking at how the proposed
11 rules address the first category. As is clear from the
12 proposed rules, when a midstream operator has an upset that
13 could cause venting or flaring in upstream facilities, they
14 want that midstream operator to not only address their
15 issue, but also to communicate with all affected upstream
16 operators so that they can respond to any venting or flaring
17 events at their sites.

18 Further, the Division wants those upstream
19 operators to respond to those events quickly. In fact, I
20 think Mr. Lepore said with alacrity, urgently, I think were
21 the words he used, so that venting and flaring can be
22 minimized.

23 The Division had recognized that this type of
24 upstream venting or flaring is beyond the control of the
25 upstream operators, so they allow four hours of response

1 time -- I think they call it a free pass -- before further
2 vented or flared volumes are counted against an operator's
3 gas capture performance.

4 While we agree with the concept, we do not
5 believe that four hours is adequate to safely and
6 effectively respond. We want you to think about something.
7 Consider that many of these events are going to be caused by
8 extreme weather, extreme weather events, winter storms,
9 spring and summer thunderstorms, so in essence, our field
10 workers are going to be responding to these events in
11 extreme weather.

12 Now, we have great employees, team players who
13 work hard for the company. That's their team, right? These
14 workers, because of these communications that we have been
15 talking about, will know that beyond a certain time, this
16 lost gas is going to count against their company.

17 Without adequate time, some of our workers may
18 take it upon themselves to maybe drive a little too fast
19 when you've got ice and snow on the ground, or maybe drive a
20 little faster than we would like them to when it's raining
21 cats and dogs. I'm not talking about speeding over the
22 speed limit, I'm just saying going a little faster than they
23 should because they know they need to get there with that
24 alacrity that Mr. Lepore talked about.

25 To be clear, our companies don't want workers to

1 take personal risks, but people are people, and they've
2 heard messages that we have given them, and they want their
3 company to meet the gas capture target.

4 So personally, I prefer 12 hours for this
5 response time, but we talked to our teams, and they talked
6 to their field folks, and they believe that they can get by
7 with (unclear) eight hours that we've recommended. So what
8 I'm asking you all to do is let --

9 MS. FOX: Objection, Madam Hearing Officer.

10 A. Excuse me?

11 MS. FOX: Objection.

12 HEARING EXAMINER ORTH: Okay, Ms. Fox?

13 MS. FOX: Mr. Smitherman keeps referring to his
14 team and their opinion, hearsay objection, in their opinion.

15 HEARING EXAMINER ORTH: I'm sorry, what is the
16 nature of the objection?

17 MS. FOX: Hearsay. Mr. Smitherman keeps
18 referring to the opinion of his team of 80. That's hearsay.

19 HEARING EXAMINER ORTH: I see. Mr. Feldewert?

20 MR. FELDEWERT: Well, if I had known we were
21 going to follow hearsay objections, we would have made a
22 similar objection. As you know, this is a rulemaking
23 proceeding in which the rules of evidence are very lax, and
24 Mr. Smitherman is here to provide insight on why NMOGA as a
25 group has proposed these changes.

1 So the information that is necessary to
2 understand these changes comes from NMOGA as a group, and
3 you can't have that understanding unless you have
4 communications with the members. So I ask you to overrule
5 the objection so he can move on.

6 MS. FOX: Madam Hearing Officer, I agree that
7 this is a rulemaking, I agree the rules of evidence don't
8 expressly apply. This is an extreme case of hearsay where
9 he's essentially giving the opinion on behalf of 80 people.

10 He can give his opinion for NMOGA on his, on his
11 own behalf, but he is not permitted to give the opinions of
12 80 people in this proceeding.

13 MR. AMES: Madam Hearing Officer, OCD would
14 object, too, but perhaps less strongly. It is clearly
15 hearsay. The rules, as Mr. Feldewert said, the rules of
16 evidence don't apply, so we need to be careful not to go too
17 far. In addition, Mr. Smitherman is an expert, you know, I
18 would say, based on his experience and so forth, and I think
19 he can testify to his own opinion, and it would carry
20 sufficient weight without him having to rely on the unknown
21 multitude who support his efforts.

22 MR. FELDEWERT: Let me add one thing.

23 HEARING EXAMINER ORTH: Mr. Feldewert.

24 MR. FELDEWERT: When we all agreed at the
25 beginning we would not have to qualify our witnesses as

1 experts, okay, I have not qualified him as an expert. I can
2 if I need to. A witness who is qualified as an expert is
3 authorized to rely on hearsay as part of his expert opinion.
4 So this objection does not apply for here for my witness.

5 MR. BIERNOFF: Madam Hearing Officer, perhaps the
6 witness can disclose the other missing 79 members of this
7 obvious panel, and having that information might help the
8 rest of us understand who exactly is providing this opinion
9 testimony.

10 HEARING EXAMINER ORTH: Ms. Paranhos, anything to
11 add on this objection?

12 (No audible response.)

13 HEARING EXAMINER ORTH: I don't hear anything
14 from Ms. Paranhos. So really, I'm inclined to overrule the
15 objection based on all of the reasons given by both Mr.
16 Feldewert and Mr. Ames, acknowledged by Mr. Ames, mainly
17 that it's rulemaking number one, that Mr. Smitherman is an
18 expert, number two. But I do like Mr. Biernoff's suggestion
19 that, in fact, if Mr. Smitherman is going to share the
20 opinions of a team, he referenced a team of 80 reviewing
21 this rule, that he should give us some indication of who
22 that team is comprised of.

23 So the objection is overruled, but Mr. Feldewert,
24 I will ask you to draw him out on that point.

25 BY MR. FELDEWERT:

1 Q. Mr. Smitherman, you mentioned that there was a
2 group of individuals who examined these rules in addition to
3 yourself?

4 A. I did. I might just restate what I said and
5 maybe make this go away.

6 Q. I would like to move this forward. I mean, these
7 people who are objecting are the same people that were
8 concerned about time, so whatever you can do to move this
9 forward, go ahead.

10 A. Let me try it again. I'm going to restart. I
11 actually prefer 12 hours, but NMOGA is recommending eight
12 hours, as you can see in Exhibit A. I am urging the
13 Commission to please give our neighbors, our field workers
14 ample time to respond safely and effectively. And if you
15 are on the fence between two numbers, please take the higher
16 number, please round up.

17 So the second major concept in dealing with NMOGA
18 emergency events --

19 HEARING EXAMINER ORTH: Hold on, hold on. Would
20 you please give us just a little information about the
21 nature of the folks who were on your review team? I'm not
22 asking for 80 names, just give us some information about the
23 type of folks you had on your review team.

24 THE WITNESS: I will do my best, Madam Examiner.
25 We had members of NMOGA, typically those in companies, who

1 created a task force, we created a task force that I helped
2 coordinate. That included experts from many, many facets of
3 our business, both midstream and upstream. And they
4 included engineers, they included folks who dealt with gas
5 marketing contracts, they included experts in measurements,
6 they included experts in hydrocarbon fluid properties, they
7 included folks who were experts in operations, both upstream
8 and midstream, they included legal experts that could help
9 us understand regulations.

10 We had regulatory experts, many regulatory
11 experts, who were experts not only in New Mexico
12 regulations, but regulations across other states and federal
13 regulations. So as you can see, it was a very, very capable
14 group of people who provided input to this process to come
15 up with Exhibits A and B that you see in front of you today.

16 HEARING EXAMINER ORTH: Thank you very much. Go
17 ahead, Mr. Feldewert.

18 MR. FELDEWERT: Thank you.

19 **Q. So Mr. Smitherman, is it your opinion that when**
20 **you look at something like the four-hour time frame, that**
21 **the Commission should consider the impact that having too**
22 **short a frame can have on the ability of operators and their**
23 **employees to effectively address the situation?**

24 A. That's correct. We want to give these people
25 time to get to the field even after notification, and we do

1 appreciate that proposition by the Division to respond, as I
2 said, many times these events are going to happen, it's
3 going to be at night, it's going to be raining, it's going
4 to be below freezing. Those are the kind of things that
5 cause many of these midstream upsets that then spill over to
6 the upstream.

7 Q. Okay. So let me stop you right there. Operator
8 gets notification that there is a problem with the upstream
9 and now they have to deal with it, okay?

10 A. Correct.

11 Q. Take us through what has to happen. What's after
12 notification?

13 A. Well, of course, you know, who received that
14 notification. It might have been someone in the central
15 office. That message has then got to go to the field,
16 someone has got to decide where is that going to be; I have
17 an impact, potential impact on our upstream operations and
18 then decide not only who, but maybe how many of our leased
19 operators need to physically respond. They are called,
20 maybe woken up in the middle of the night, and they have to
21 get in their vehicles, maybe drive by the office to get some
22 information or swap out to the company vehicle, and they
23 have to drive to the field.

24 There is also communication that then goes on
25 between the upstream company representatives and the

1 midstream. Midstreamers also have to respond. I've been
2 kind of thinking mentally about how the upstream operator
3 responds, but the midstreamers are responding as well. They
4 have to send their people out in the middle of the night
5 perhaps, in bad weather perhaps, to whatever site has caused
6 this issue. They need to get out there and assess what was
7 the problem; is this something that can be handled in 30
8 minutes, or is this some major event that's going to take a
9 long time.

10 **Q. Now, let me stop you right there. You're talking**
11 **about the midstream, their evaluation of how long this upset**
12 **is going to occur, is that important for downstream**
13 **operators to understand what they need to do?**

14 **A.** That's essential. If it's going to be a short
15 term, let's say it's going to be 30 minutes. Well, you're
16 probably still going to send your people to the field to
17 make sure that operations are still (unclear) even though
18 that it might be resolved before you even get out there.
19 But if it's several hours, you're going to have to decide
20 how to manage that. You may have the opportunity to shut
21 wells in, but you also may have the opportunity, if you've
22 got multiple connections, to be able to send your gas to a
23 different gas gatherer so there's no interruption in
24 production and no flaring, or minimized flaring.

25 So you've got to have a communication between

1 those two, which is what the Division has talked about.
2 They want to ensure communication between the midstream and
3 the upstream. That's why they basically said you've got a
4 notification requirement on the midstream sector.

5 Q. Okay. So you get your notification, you figure
6 out who the people are and who you need to get out there,
7 they get themselves ready, they get themselves out of bed or
8 whatever they've got to do to get themselves ready to go out
9 to the field. Now they've got to go out to the field, what
10 are the challenges that they face going out in the field,
11 whether you're in the Northwest or down in the Permian?

12 A. Well, it's not like going down the street to a
13 7-11. It's a long way in many cases and many of those miles
14 of road are not paved road. You've got gravel-leached
15 roads, and they have snow on them and they have water on
16 them. You can't go very fast on those things because it's
17 just the nature of those bumpy roads, so you drive out to
18 the field.

19 And let's also imagine you've got a midstream
20 operation, midstream malfunction that might have affected
21 several of the company's upstream facilities. And that
22 company may decide, I can't just send my normal lease
23 operator out there, I need to send a couple of others
24 because we need to get to all of those facilities quickly.

25 Q. Now, once you're there, you pull up. Then what

1 **do you have to do?**

2 A. Well, you've got to assess, first of all, is it
3 safe to get out of your car, and if you have got a lightning
4 storm going on, you'd better not get out. But you've got to
5 get out, you've got to look at what's going on, you've got
6 to assess the safety of the situation, make sure that it's
7 safe for you, and then you've got to basically see what is
8 going on at your facility and what you need to do.

9 If you've going to respond by shutting in wells,
10 there is typically communication that needs to go on between
11 you and the home office, if you will. Sometimes that's
12 easy, sometimes it's not. Many places in the field you pick
13 up your cell phone and you have no bars, you can't
14 communicate.

15 So you've got to assess what you can at the site,
16 perhaps maybe drive off a little bit and find a little hot
17 spot where you can, but it takes awhile to assess what is
18 going on and it takes awhile to communicate with the
19 midstream to understand the timeframe that you need, and
20 then you've got to make a decision within the company as to
21 how to respond.

22 **Q. All the while making sure that you're doing this**
23 **in a safe fashion?**

24 A. Correct.

25 **Q. Okay. In your experience, Mr. Smitherman, having**

1 been doing this for 40 years, is four hours after
2 notification sufficient time for a prudent operator to
3 safely address venting and flaring events caused by
4 gathering system upsets?

5 A. Many, many times it will not be close to
6 adequate.

7 Q. In your opinion, is eight hours a more
8 appropriate time to balance the concerns that the Division
9 has and in real, real-world operational situations that
10 operators face out there?

11 A. That's exactly what NMOGA recommends.

12 Q. Okay. I want to go then to the next proposed
13 change, I think what maybe didn't come out here, you were
14 talking about G(4); right, 27.8.G(4)?

15 A. Yes.

16 Q. Okay.

17 A. I barely remember that, but yes.

18 Q. And there's a different -- okay, there's a
19 similar -- well, there's not because it's an upstream.

20 So let's go to G(5), okay, in Part 27 which would
21 be on Page 4 of our NMOGA Exhibit A.

22 A. I see that.

23 Q. Okay. Now, this is a circumstance where we are
24 proposing a change to Subpart 5; right?

25 A. Correct.

1 Q. By striking "including a recurring equipment
2 failure"?

3 A. Yes.

4 Q. And there's a similar change to the definition of
5 "emergency" in Part 28?

6 A. That's correct.

7 Q. Okay. Now, what is the problem with this
8 provision as written if they don't accept our change?

9 A. The word "negligence" is a very strong term,
10 number one, and what I see here in this very short passage
11 is, in essence, an operator who has recurring equipment
12 failures is in essence deemed a negligent operator. And I
13 think it's a terrible mischaracterization. It has no time
14 limits on it, it has no recognition that this is a
15 complicated, or I should say complex system that sometimes
16 these pieces of equipment are sometimes difficult to
17 diagnose the first time.

18 Q. And in your opinion, Mr. Smitherman, and based on
19 your, experience are there recurring equipment failures that
20 occur that are beyond the operator's control?

21 A. Yes, no doubt about that.

22 Q. Can you give us an example? You said there is
23 complicated equipment out there. Can you give us an example
24 of recurring equipment failures that are not the fault or so
25 bad they're negligence on the part of the operator?

1 A. Sure. You can have an operator, an exemplary
2 operator that, for example, has a compressor, that's a
3 pretty good poster child for this. That's a complicated
4 piece of equipment. And that compressor can fail. And
5 sometimes -- well, let's do it differently.

6 A compressor can fail, the operator can call in a
7 mechanic -- it might be a company mechanic, it could be a
8 third-party professional mechanic that comes in to help
9 diagnose and repair the compressor. That makes that person
10 who we've relied on and believes does a good job, we're
11 happy to pay him, comes in and diagnoses what he thinks the
12 problem is, and he may make a change. And start the
13 compressor back up, everybody's happy, he drives off and two
14 days later the compressor fails again.

15 Well, perhaps he didn't quite understand what the
16 failure was. He did the best job he could, he was not
17 negligent, he was not being poor quality maintenance or
18 anything like that. He was trying his best to fix that
19 compressor, and he comes back in, diagnoses it again, makes
20 another change. And sure enough, it starts back up again,
21 everybody's happy, he drives off, and a week later, the
22 compressor fails again. Same compressor, and this time he
23 finally finds something that he hadn't seen before and makes
24 the change and gets it running again.

25 Now, that is not a negligent operator. They have

1 done the best they can, they have hired an excellent
2 mechanic to come fix their compressor, and it simply took
3 some time to find the right solution.

4 Q. So Mr. Smitherman, when you read this the way
5 it's written, you have recurring equipment failure, you are
6 automatically deemed negligent, and therefore, the incident,
7 flaring and venting incidences are not excused; right?

8 A. That's correct. It requites anybody that has
9 recurring equipment failures a negligent operator and I
10 think that's extreme.

11 Q. Okay. And based on, just to be clear, based on
12 your 40 years of experience, does recurring equipment
13 failure always mean that you've got a bad operator out there
14 who's negligent?

15 A. Clearly not.

16 Q. Okay. Now, I want to talk then about the change
17 to Subpart 6.

18 A. Yes.

19 Q. In this we see both a change in Part 28 and --
20 I'm sorry, Part 27 and then a similar change to the
21 definition in Part 28; right?

22 A. Yes.

23 Q. And Subparagraph 6 says, as written, "three or
24 more emergencies experienced by the operator," this is
25 operator specific --

1 A. Correct.

2 Q. -- "within the preceding 60 days is deemed not to
3 be excused unless the Division determines otherwise." Okay?

4 A. I see that.

5 Q. All right. Now, I want to talk about that last
6 clause in a minute, but let's just talk about the first
7 change that NMOGA proposes. They proposes to add "at one
8 site for similar causes."

9 A. Correct.

10 Q. Okay. Is there two components to that?

11 A. Yes.

12 Q. We have "at one site."

13 A. That's correct.

14 Q. And then we have "for similar causes."

15 A. That's correct.

16 Q. Okay. Can you give us an example of why it would
17 be appropriate to add the phrase "at one site"?

18 A. Certainly. In fact, it has come up already in
19 these proceedings this week. You get extreme weather
20 events, you get a thunderstorm, a line of thunderstorms that
21 moves through Southeast New Mexico, which I've seen many,
22 many times. And that thunderstorm can cause malfunctions
23 and maybe one operator has five or six locations that are
24 disrupted by that.

25 And in essence, that would mean that only two of

1 those events would be considered an emergency and the rest
2 of the four would be held against the operator, and in
3 essence, the operator had no control over that event.

4 Q. Okay. And then what would be an example of why
5 you would want the phrase "for similar causes"?

6 A. Well, as I said before, these facilities can be
7 complex, they have lots of moving parts, and even an
8 exemplary company with a top, top-notch maintenance program
9 can have things go wrong. And to have, let's say, a dump
10 valve (unclear) on the first stage operator, it's operating
11 at say 300 pounds. The dump valve cuts out, sends all of
12 the fluid to a lower pressure, say a hundred pound
13 separator, and that overwhelms that separator and the
14 pressure relief valve goes off and sends gas to the flare.

15 It happens, it's not the fault of the operator,
16 he could not have foreseen it, even if he has an excellent
17 maintenance program. Then two weeks later, you could have a
18 lightning strike in the area, knocks out some electronics on
19 the site completely out of the blue, not even something the
20 operator can prevent against.

21 And I say that because I heard earlier, well, you
22 know you had lightning out there, why don't you build your
23 facilities to withstand that. We can talk about that a
24 little bit later. Let's just talk about the fact that it
25 can happen, and all of a sudden you've got two events at the

1 same site. Well, if you have another event that's not
2 related to anything, let's go back to that compressor.

3 Compressor fails. Again, you have an excellent
4 program, you're an exemplary operator, and all of a sudden
5 that event that you could not have foreseen, did not have
6 control over, counts against you. We don't think that's
7 fair.

8 HEARING EXAMINER ORTH: Mr. Feldewert, I didn't
9 want to interrupt Mr. Smitherman's train of thought, but it
10 is 4:32. We do have a single public commenter, and I see
11 her here among the attendees. We'd like to take her comment
12 and then go back to Mr. Smitherman.

13 MR. FELDEWERT: Certainly. Can we be excused for
14 five minutes?

15 HEARING EXAMINER ORTH: Yes, yes, absolutely.
16 Thank you.

17 So this is the 4:30 public comment session in
18 this hearing, Case 21528, an OCC rulemaking. My name is
19 Felicia Orth, the Hearing Officer appointed by the
20 Commission to conduct this hearing. We also have our Oil
21 Conservation Commissioners on the line.

22 There was a single attendee who signed up for
23 this comment session, and it's Karen Weber.

24 (unclear)Baylen, will you unmute her.

25 Ms. Weber.

1 MS. WEBER: Yes.

2 HEARING EXAMINER ORTH: I can hear you. If you
3 would please keep your comment to just a few minutes,
4 please.

5 MS. WEBER: I understand, yes. My name is Karen
6 Maria Weber. I live in Santa Fe, and first of all, I want
7 to thank you for this opportunity to offer my comments.

8 As you know, New Mexico is among the top
9 producing states in natural gas and methane. As you also
10 know, it's a greenhouse gas, which I understand is 30 to 80
11 times more potent than carbon dioxide. And unfortunately,
12 in New Mexico currently there are not requirements in
13 containing methane and any related pollution.

14 In fact, these operations also emit ozone-forming
15 pollutants that worsen up emphysema and asthma. And on a
16 personal note, as a teacher of young students, I see many
17 children with asthma. And the prospect of it being worse
18 really horrifies me.

19 These pollutants also immediately affect the
20 health of all New Mexicans and most acutely those living in
21 the communities in the adjacent areas. Yet not only are its
22 impacts being felt in this way, methane is a leading cause
23 of emissions contributing to climate disruption which we are
24 already seeing in New Mexico with changed weather patterns
25 and droughts forced on us, all of which affect water supply,

1 already an issue here in agriculture, as well as affecting
2 the rest of the country and the world basically.

3 So in fact, methane is responsible for
4 approximately 25 percent of the warming we experience today.
5 So considering these facts, I wanted to make comment to look
6 to your leadership to protect the people of New Mexico now
7 and in the future, and I urge you to adopt rules to reduce
8 this methane waste.

9 And again, I thank you for your time.

10 HEARING EXAMINER ORTH: Thank you very much, Ms.
11 Weber. Just in case, let me ask if there is any other
12 member of the public who signed up to make public comment
13 this week who has not already spoken and might want to offer
14 it now.

15 (No audible response.)

16 HEARING EXAMINER ORTH: Did I mute myself? I'm
17 sorry. Okay. Well, that was the only public commenter we
18 had sign up for the 4:30 session today. We have two
19 sessions every day between now and January 15th. Written
20 public comment may also be submitted to Florene Davidson
21 whose contact information is on the Oil Conservation
22 Division outreach and public engagement web page.

23 We can return now to the technical case. Let me
24 see if we have Mr. Feldewert back.

25 CHAIRWOMAN SANDOVAL: Before we start back up,

1 can we clarify just how late we intend to go today?

2 HEARING EXAMINER ORTH: What's your pleasure,
3 Madam Chair?

4 CHAIRWOMAN SANDOVAL: I don't have a particular
5 preference. Commissioner Kessler, do you have any
6 preferences for today?

7 COMMISSIONER KESSLER: We can go until about
8 5:15.

9 HEARING EXAMINER ORTH: I think you said 5:15.
10 Yes? Okay. All right. So, Mr. Feldewert.

11 MR. MOANDER: Madam Hearing Officer, this is
12 Chris Moander. I wanted to chime in on scheduling a little
13 bit. I'm still working on --

14 CHAIRWOMAN SANDOVAL: Why don't we talk about --
15 I would prefer to talk about this offline.

16 MR. MOANDER: Okay.

17 CHAIRWOMAN SANDOVAL: Thank you.

18 HEARING EXAMINER ORTH: All right. Thank you.

19 So Mr. Feldewert, if you would, please, lead Mr.
20 Smitherman through some more questions and come to a good
21 stopping point at or about 5:15.

22 MR. FELDEWERT: All right. I will do my best.

23 HEARING EXAMINER ORTH: Thank you.

24 JOHN R. SMITHERMAN

25 CONTINUED DIRECT EXAMINATION

1 BY MR. FELDEWERT:

2 Q. Mr. Smitherman, we were addressing "at one site,"
3 the purpose of that language, "for similar causes," the
4 purpose for that language. You mentioned, I think, "for
5 similar causes" you had reasons why you might have three
6 successive events within the 60 days; right, it would be at
7 no fault of the operator?

8 A. Correct.

9 Q. Now, the Division does have a clause on here at
10 the end that says, "unless the Division determines the
11 operator could not have reasonably anticipated the current
12 event." Do you see that?

13 A. I do see that.

14 Q. Okay. Now, we have proposed to strike that.

15 A. That's correct.

16 Q. What's the thought process behind that? I mean
17 what's the thought process in not leaving this at the
18 Division's lap?

19 A. Well, again, you talked about regulatory
20 certainty and clarity. That's certainly a major thought
21 here. Two aspects of this: Number one is how long will it
22 take to get a response to understand whether or not an event
23 that has occurred to an operator is going to be considered,
24 in essence, a forgiven event.

25 Number 2, think about it from the other way. If

1 you've got some kind of extreme weather event, it doesn't
2 just affect one operator; it affects lots of operators, and
3 many of those operators are going to be basically inundating
4 the OCD with requests for, in essence, review of their
5 situation. So it really seems to be a burden on the OCD as
6 well.

7 Q. Okay. Now, the other thing I don't want to lose
8 sight of here is that for this exception to emergencies to
9 apply, we are talking about three or more emergencies
10 experienced by the operator within a period of 60 days.

11 A. That's correct.

12 Q. So we're talking about emergency events. In your
13 experience, just because an operator has three or more
14 emergencies in 60 days, does that mean, always mean they're
15 a bad operator or that they've been negligent?

16 A. Certainly not. And as it's written, you're
17 talking about three emergencies across an entire reporting
18 region. That certainly doesn't represent a bad operator.

19 Q. But at the same time, the Division is trying to
20 balance addressing those circumstances where you do, right?

21 A. And I understand that, and we understand that and
22 support that. And that's why we offered what we thought was
23 a better balance, that is, lessens the administrative burden
24 but it also allows enough limitations that it should allow
25 the Division to weed out those patterns that we heard about

1 earlier this week and seeking patterns to find operators who
2 really aren't doing their best.

3 MR. FELDEWERT: Madam Chair and Commission, I'm
4 going to do something a little bit different I've done in
5 prior rules and I found it to be helpful, so I'll leave it
6 up to you.

7 At this point I intend to move to a slightly
8 different subject, but I'm offering you the opportunity to
9 ask any questions you may have now on the subjects that
10 we've already covered before we forget them.

11 HEARING EXAMINER ORTH: Let's see, Commissioner
12 Kessler, do you have questions right now?

13 COMMISSIONER KESSLER: I don't. I think we've
14 heard everything that we need.

15 HEARING EXAMINER ORTH: I believe she said she
16 did not.

17 Commissioner Engler?

18 (No audible response.)

19 CHAIRWOMAN SANDOVAL: I don't believe he is on, I
20 don't see him.

21 HEARING EXAMINER ORTH: All right. And Madam
22 Chair, do you have questions right now?

23 CHAIRWOMAN SANDOVAL: This isn't going to
24 preclude me from asking questions on this topic later,
25 right?

1 MR. FELDEWERT: No.

2 HEARING EXAMINER ORTH: Not at all.

3 CHAIRWOMAN SANDOVAL: I mean I think one of my
4 questions is you provided a whole lot of anecdotal
5 evidences. Is there anything concrete to provide on this
6 topic of emergency, on anything of these, the things you
7 spoke about?

8 THE WITNESS: When you say concrete, I'm not
9 exactly sure what you mean. Can you help me out with that,
10 please?

11 THE COURT: Do you have any specific examples
12 that you could provide? You know, there was a lot of, you
13 know, I think talking of what that scenario might look like,
14 but is there actually anything concrete, scenarios that have
15 happened, any actual data or evidence that could be
16 provided? Because all of that seems pretty anecdotal, like
17 a nice story.

18 THE WITNESS: Yeah, well, and I appreciate that.
19 I guess from my perspective, it is a memory of things that
20 had happened to the company that I worked for that I was
21 personally knowledgeable about in one of several roles
22 through 15 or 20 years of my career.

23 I probably couldn't name an actual chapter and
24 verse, if you will, a date, but I have seen this happen. I
25 have been in New Mexico when it snowed and ice storms come

1 through and you look across the area and maybe a particular
2 area sees a lot of flares flow. Well, it's because the
3 midstream compressor has gone down because of really, really
4 cold temperatures, and it affects the upstream facilities.
5 It's not just one facility; it's several, it's several
6 operators and several facilities for each operator.

7 So I'm not sure that I can give you an actual
8 date and location, but I can tell you that I have seen that.
9 It's not just a story; it's relating what I've seen.

10 THE COURT: Well, I think Mr. Bolander testified
11 to the exact same thing that was just talked about, that
12 when the midstream goes down. Are there any mechanisms, let
13 me ask this, are there any mechanisms for producers, either
14 through their contracts, et cetera, to encourage, push, et
15 cetera, the midstream operators to do better?

16 THE WITNESS: There are. You can find language
17 in contracts, not every contract, but you see language in
18 contracts that guarantees that. Not in all of them. It
19 depends on the ability to put those provisions in the
20 contract.

21 A lot of it comes down to who are you going to
22 contract with. You can have several gas gatherers who are
23 in the area and you may find that you like the reputation or
24 the path of one over another. And you may chose them
25 because of that. So sometimes it's having experience in the

1 area that help you pick the right one, and develop
2 relationships, and get to the point where they're calling
3 you when they need to.

4 But the most responsive gas gathering companies
5 are the ones we always like to do business with, because
6 regardless of whether it was required by state rule, we
7 needed communication between the midstream company and us.

8 CHAIRWOMAN SANDOVAL: All right. I think that's
9 maybe all I have for now.

10 HEARING EXAMINER ORTH: All right. Thank you.

11 Mr. Feldewert, if you would continue, please,
12 with your questions.

13 BY MR. FELDEWERT:

14 Q. So Mr. Smitherman, I want to now, we're still
15 within definitions, but now we're talking, I want to talk
16 about some related definitional changes. Okay?

17 A. Certainly.

18 Q. And I believe they involve completions, initial
19 flowback, separation flowback, startup of production, and
20 production.

21 A. Okay.

22 Q. This is purely a Part 27 upstream issue; right,
23 Mr. Smitherman?

24 A. That's correct.

25 Q. Okay. And when you look at Part 27 and you look

1 **at these language changes to these definitions, could you**
2 **please explain the purpose of these related changes?**

3 A. Certainly. There are a series of phases, in
4 essence, a well construction that all kind of work together.
5 You've heard some of the comments already and testimony from
6 others this week, and in essence, what we would, what we
7 see, number one, we see in the Division's intent, apparent
8 intent, is that we are very much aligned with the Division's
9 intent, with maybe one exception, but very much so aligned
10 with them in concept.

11 But sometimes the language that the Division uses
12 is different than we're used to and that is common in the
13 industry. And that language that's common in the industry
14 has been established now for many years through, quite
15 frankly, the air emissions matter that the EPA put out
16 called Quad O, Quad Oa, and it establishes definitions
17 through these different phases of a well construction
18 process.

19 **Q. And have we proposed language changes to be**
20 **consistent with those Quad Oa definitions?**

21 A. We have, we've tried to be consistent word for
22 word where we can with Quad Oa. The industry understands
23 Quad Oa. You don't run afoul of someone misinterpreting
24 something. The Division seems like they are trying to
25 define the exact same point in time or point in the phase of

1 a wellbore's completion process. But since you're using
2 different words, it could be interpreted differently, and we
3 don't see any benefit to that.

4 Q. Okay. And is there another aspect of using the
5 Quad Oa definitions that impacts the completion operations
6 definition?

7 A. Certainly. The completions definition -- and
8 shall we just describe the difference between Quad Oa and
9 the Division? Is that what you're asking me about right
10 now, Mr. Feldewert?

11 Q. Certainly. Well, let me ask you this. We do
12 have with one definition, though, that was not utilized by
13 the Division that's from Quad Oa; right?

14 A. That's correct.

15 Q. Startup of production?

16 A. Startup of productions, correct.

17 Q. And what was the purpose of adopting that
18 definition from Quad Oa, how does that impact the
19 definitions that the Division has proposed?

20 A. We have talked about this as being a very
21 important topic. I think almost every witness has talked
22 about this in one way or another so far, but this idea of
23 after you have done a fracture stimulation on a well and you
24 have an initial flowback period, and then you've got a
25 particular definition for when you enter the separation

1 flowback phase, and then there is also a particular
2 definition for when the flowback separation phase ends and
3 normal production operations begin. And we are suggesting
4 that that language, that that concept be adopted in these
5 rules.

6 Q. Okay. And does that allow the Commission to
7 replace the 30-day provision that we see in the completion
8 operations definition?

9 A. It does. Quite frankly, the actual physical
10 thing that's going on in the field in this completion and
11 these definitions of when you move from one phase to the
12 other, might or might not, in fact mostly don't, conform to
13 a particular 30-day, 31-day period of time.

14 So it causes confusion between what we would
15 normally consider one phase as viewed by the EPA, for
16 example, or other industry representatives, for example, and
17 how the Division might view it.

18 Q. And this is an area, Mr. Smitherman, you're
19 intimately familiar with based on your experience; right?

20 A. That's correct. I have done many, many wells.

21 Q. What it takes to move from drilling, to
22 completion, to startup, to production?

23 A. Exactly.

24 Q. Okay. Would you turn to what's been marked as
25 NMOGA Exhibit C-10, and it would be in the large notebook

1 that we provided the Commission, the large binder that has
2 the Exhibits C through M. Would you please explain to us
3 what you're showing here on Exhibit C-10?

4 A. Certainly. C-10 is one of the series of exhibits
5 that will walk us through this concept.

6 Q. Okay.

7 A. In essence, we're going to talk about a well life
8 timeline and basically show you kind of birth to death of
9 what a wellbore looks like. So that's why I talk about
10 drilling, completing, and operating. It's a fairly simple,
11 almost cartoonish look at the life of a single well.

12 Q. Okay. And what are you showing us then with how
13 do you build on that in C-11, the next page?

14 A. Certainly, certainly. What I'm trying to do is
15 trying to give some perspective to, in essence, the life of
16 a well. I think maybe Mr. Powell or Mr. Lepore might have
17 said something the same, that the life of a well, the
18 completion operations is a very, very, very small part of
19 the timeline of a well's life.

20 This timeline is to scale. Now, obviously it's
21 not every well that's got a 30-year life, but this is a
22 typical life of a well. And a little bitty red ball on the
23 left side of this timeline that moves from the spud on the
24 right side to, in essence, plug and abandonment -- excuse
25 me, spud on the left side and plug and abandonment on the

1 right. All of that drilling and completion phase happens in
2 that little red ball. And the whole of the rest of the life
3 is the black bar that takes you the rest of the 30-year
4 life.

5 Q. Okay. So then move to Exhibit C-12.

6 A. Yes.

7 Q. Now, this is the exhibit where we show the
8 Division's definition on the left-hand side; right?

9 A. Correct.

10 Q. Around currently they're using a 30-day period.

11 A. Correct. And they've actually changed that in
12 this particular -- in their latest version.

13 Q. Okay.

14 A. But it's in this slide because this is what it
15 was before the last iteration. But I can talk from it, it's
16 okay.

17 Q. All right. Go ahead.

18 A. As I mentioned earlier, that little red bar is
19 the drilling and completion life. Part of that is the
20 drilling and the rest of it is completion. So now we're
21 going to focus in on the completion and the phases of that
22 completion.

23 So let's first look at the term "completion
24 operations." The Division has provided a definition of
25 "completion operations." And NMOGA has provided a

1 definition of "completion operations." And they are
2 similar, especially now that they, that the Division has
3 removed the words "on the earlier of 30 days after
4 commencement of separation flowback." They have moved that
5 to a different definition. It's not gone, it's just moved
6 to a different term.

7 **Q. Okay.**

8 A. So in essence, what they say -- I'm sorry. Their
9 current language says it's the period that begins with the
10 initial perforation of the well and the completed interval
11 and concludes at the end of separation flowback. That's
12 what their proposed language says.

13 **Q. And how are we different?**

14 A. We use the term "startup production," as the end
15 term. We also start from the first perforation. So there's
16 no difference there, and quite frankly, the startup of
17 production is the end of separation flowback. So we are
18 actually exactly the same conceptually, but we're using
19 different words.

20 **Q. Is the term startup of production that we**
21 **utilize, is that defined in Quad Oa?**

22 A. It is. We use that term exactly.

23 **Q. And just to jump ahead, is that shown on**
24 **Exhibit C-15?**

25 A. It is. As you can see on C-15, EPA uses startup

1 of production and NMOGA uses the exact same words until you
2 get to the very end of it. You see in the EPA Quad O and
3 Quad Oa definition, you see "produced water," comma, "except
4 as otherwise provided in this definition." And that refers
5 to completely different issue. That refers to, in essence,
6 (unclear)L-dar requirements. So this doesn't have anything
7 to do with this (unclear). So we will see, except for those
8 words, NMOGA's wording is exactly the same as the EPA Quad
9 O, Quad Oa.

10 Q. Okay. So we are using a well-defined term to
11 ascertain when completion ends?

12 A. That's correct.

13 Q. Okay. And if I go back to Exhibit C-13 --

14 A. I see that.

15 Q. Okay. And what are we showing here?

16 A. This is the initial flowback period. We've
17 talked about that quite a bit this week. This is the period
18 of time after a well has been hydraulically stimulated, and
19 drill-out has been completed, and initial flowback begins.
20 So it -- in Quad Oa definition is the period during a well
21 completion operation which begin at the onset of flowback
22 and ends at the separation flowback stage.

23 And you'll see that NMOGA's words are the exact
24 same. The Division is actually the same, not necessarily
25 using the same words, it's the same concept. So again, if

1 they're going to use the same concept, why not use the same
2 terms that Quad Oa offers that's well known in the industry
3 so that there is no (unclear).

4 Q. And then we see the term on the next page,
5 Exhibit C-14, the Division has a term "separation flowback;"
6 correct?

7 A. That's correct.

8 Q. And we will have proposed a change again to line
9 up with Quad Oa?

10 A. That's correct. As you will see here on this
11 slide, the NMOGA language is exactly word for word the EPA
12 Quad O, Quad Oa language. Now, the Division has changed
13 their definition, their wording, since this slide was, was
14 established. So this is where they move the 30-day concept.
15 It currently says it means separation flowback means the
16 period during the completion operation that begins when it
17 is technically feasible for separator to function and
18 concludes no later than 30 days after the commencement of
19 initial flowback.

20 So there's that, and I don't want to be
21 pejorative but that arbitrary 30-day period that, that, in
22 essence, says that's when you have to end separation
23 flowback and it may or may not come conform to the realities
24 on the ground, it certainly doesn't conform to the Quad Oa
25 definition.

1 Q. So rather than using an arbitrary timeframe,
2 NMOGA is suggesting using a definition that's well known and
3 it's utilized by other agencies to determine when you have
4 separation flowback?

5 A. That's correct.

6 Q. Okay. And then NMOGA Exhibit C-15 we've already
7 addressed; right?

8 A. That's correct.

9 Q. Okay. And then we get to C-16 which is the
10 definition of production operations?

11 A. That's correct. You'll notice here the EPA
12 doesn't define that because, in essence, they, I guess,
13 assume that once you start up production, then you are in
14 production operations.

15 Then NMOGA has offered a modification of this
16 definition, partly because the Division had one, and so we
17 are offering that the production operations means that the
18 period that begins upon the startup of production and
19 concludes when the production ceases and wells are plugged
20 and abandoned. Once again, lining up exactly hand-off from
21 the separation flowback period and start of production, and
22 that's exactly the same conceptual point that we begin
23 production operations by definition.

24 The Division deviates from that concept again by
25 putting this, and again I don't want to be pejorative, but

1 this arbitrary 30-to-31-days time period upon separation
2 flowback, they basically say that production operations
3 begins on the earlier of 31 days following commencement of
4 initial flowback or when production -- excuse me, permanent
5 production equipment is placed into service, and that's the
6 difference between the two.

7 **Q. And again, our use of the term startup of**
8 **production to re place that 31-day timeframe comes directly**
9 **from the Quad O definition?**

10 A. It comes directly from Quad O and it conforms to
11 the physical reality.

12 **Q. And at startup of production, the definition is**
13 **on the prior slide, C-15?**

14 A. That's correct.

15 **Q. Okay. Now, Mr. Smitherman, I want you to utilize**
16 **your expertise and put these definitions into content as you**
17 **move from drilling to completion in production operations.**
18 **And is that, if we turn to slide C-17, does that assist you**
19 **in doing that?**

20 A. It does, thank you very much. What this slide
21 shows is, again, it's a timeline. Time is moving from the
22 left to the right, you see the blue arrow that has title
23 time elapsed since spud. And below that arrow I've got
24 three what I will call physical phases of wellbore
25 construction and operation.

1 The drilling operations, the physical act of
2 drilling the well; the completion operations, again, the
3 physical act of all the things that are involved in
4 completing a well; and the production operations, again, the
5 physical operations.

6 And I tried to put below that some definitions of
7 where these different phases are and tried to illustrate the
8 differences between how NMOGA is proposing these definitions
9 and how they compare to the Division. And I guess some of
10 the biggest items here are, you see the next line below
11 (unclear) drilling and completion and production, I've got
12 30-day timeframe may or may not conform to the physical
13 status.

14 And probably the most important of those two
15 lines is the bottom one where you've got initial flowback
16 starting at the low vertical black line, and it may or may
17 not end when -- that 30 days may or may not be the same
18 exact time as startup of production. I've got it drawn
19 where it could be before that or after that. As I said
20 before, it's arbitrary. It doesn't conform to the physical
21 realities on the ground.

22 **Q. So my understanding that the primary -- is it my**
23 **understanding that the primary difference between what the**
24 **Division's is offered and what we have offered is that we**
25 **are eliminating this 30-day provision; right?**

1 A. That's correct.

2 Q. And we are using language that is consistent with
3 Quad Oa in which operators understand?

4 A. Correct.

5 Q. Okay. In your opinion, Mr. Smitherman, do these
6 changes accurately convey when a completion phase ends and
7 when the production phase actually begins from a technical
8 standpoint?

9 A. They do.

10 Q. And are they necessary to conform with the
11 understanding of these terms by engineers and operators in
12 the oil and gas industry?

13 A. It would create great clarity. Even if, if those
14 places where we agreed conceptually, I don't see any
15 particular value to the Division or the industry to not use
16 the actual Quad Oa language. It just -- I don't see the
17 benefit and I've only seen possibilities for lack of
18 clarity.

19 Q. Okay.

20 MR. FELDEWERT: What time do we have to end here,
21 Madam Hearing Officer?

22 HEARING EXAMINER ORTH: In 11 minutes.

23 MR. FELDEWERT: Madam Chair, Commission, does
24 anyone have questions about these definitional changes at
25 this point?

1 CHAIRWOMAN SANDOVAL: No, and I would prefer to
2 hold questions for the end.

3 MR. FELDEWERT: Okay.

4 CHAIRWOMAN SANDOVAL: I think otherwise it's just
5 going to extend the process even longer.

6 MR. FELDEWERT: Okay.

7 Q. Mr. Smitherman, I want you to then address the
8 NMOGA's changes to the definition of flare or flaring and
9 the definition of vent and venting. Okay?

10 A. Certainly.

11 Q. Am I correct that it's the same change whether
12 you're in Part 27 or Part 28?

13 A. Yes, it is.

14 Q. Okay. Would you explain the basis for these
15 definitional changes of flare and flaring or vent and
16 venting?

17 A. Certainly. I'm going to kind of give a little
18 bit of a high-level view of those instead of talking about
19 the specifics point yet.

20 First of all, NMOGA supports rules that seek to
21 reduce or even eliminate excessive or unnecessary venting
22 and flaring of natural gas, we agree with that. Unnecessary
23 and/or excessive venting and flaring constitute waste and
24 are legitimate issues for the Division to regulate.

25 Even so, they're releases of natural gas and

1 combustion of natural gas not for beneficial use that are
2 not excessive and are necessary for normal, safe, (unclear)
3 upstream and midstream operations. Those releases are not
4 waste. In fact, I think Mr. Lepore said the same thing.

5 So how we identify and focus on, and track, and
6 reduce or eliminate waste without it conflating these two
7 categories? We believe that a very effective way to do that
8 and manage that challenge is to focus on high-pressure
9 sources by excluding low-pressure sources of these releases
10 in the very definitions of venting and flaring.

11 So I think we've talked about this a little
12 before this week but let's talk about a few of the
13 low-pressure sources as examples; releases from pneumatic
14 devices, releases from storage tanks, either combusted or
15 not, releases from equipment designed to release gas during
16 normal operations, et cetera.

17 These devices are necessary for normal and safe
18 operations and these releases are not waste. So not only
19 should they be allowed by the Division, but they should be
20 exclude from reporting and excluded from the gas capture
21 calculations.

22 Since these releases are not waste, they are
23 under the purview of NMED as respects air quality sometimes
24 resulting in the requirement to combust certain volumes
25 instead of releasing them, as their air expert determined is

1 the proper course of action.

2 We have offered modifications to the definitions
3 of vent and venting, flare and flaring, that excludes these
4 low-pressure sources so that we can focus on unnecessary
5 and/or excessive venting and flaring which are predominantly
6 from high-pressure sources. In doing so, follow the path of
7 Colorado's Oil Conservation Commission by eliminating the
8 low-pressure sources from the very definition of venting and
9 flaring at the outset.

10 And you'll also see in our modifications we
11 didn't just alter the modifications of the definitions;
12 we've also offered modifications to other parts of the rule
13 for clarity and emphasis because these are important topics.

14 As I mentioned, we recommended that the Division
15 not require reporting of volumes of venting and flaring from
16 low-pressure sources. Why is that? There is virtually no
17 way to measure or even estimate many of these volumes with
18 sufficient accuracy for the purposes of production
19 accounting. We've actually heard other witnesses from the
20 Division say the same thing.

21 A. As I said in my opening observations, bad
22 data is inappropriate for enforcement or policy development.
23 And believe me, reporting of gas releases from low-pressure
24 sources is the reporting of bad data. Now, I want to
25 emphasize that the elimination of low-pressure sources from

1 reporting and gas capture requirements calculations will not
2 diminish the focus of these rules on high-pressure sources.

3 In fact, these rules as modified, suggested
4 modifications from NMOGA will go well beyond impact and what
5 had been thought of as routine flaring, because it will
6 include high-pressure sources of all types.

7 **Q. Whether routine or nonroutine?**

8 A. Absolutely. Routine flaring is something that
9 we've heard many, many times from our public statements.
10 The inclusion of the modifications to NMOGA has offered will
11 go well beyond that.

12 **Q. So Mr. Smitherman, you mentioned unnecessary and**
13 **excessive surface loss. That comes from the definition of**
14 **surface waste, as I understand it?**

15 A. That's correct.

16 **Q. Okay. And does NMOGA's definitional changes**
17 **focus on, therefore, the loss of saleable gas, gas that**
18 **could otherwise be captured and sold?**

19 A. That's correct.

20 **Q. And your point is that these lower pressure**
21 **sources, such as pneumatic controllers or vapors from**
22 **storage tanks are instances where that gas cannot be**
23 **captured and put into a sale line?**

24 A. That's correct.

25 **Q. Okay. And therefore, it does not constitute**

1 **waste?**

2 A. That's correct.

3 MR. AMES: Objection, leading questions.

4 HEARING EXAMINER ORTH: They are leading, Mr.
5 Feldewert, and to the extent you're summarizing his
6 testimony, they are duplicative, I think.

7 BY MR. FELDEWERT:

8 Q. Okay. And in your opinion, Mr. Smitherman, are
9 these low-pressure sources that have been discussed here by
10 a lot of witnesses here today and yesterday, are they -- is
11 that the type of gas that can be put a sales line?

12 A. No, not reasonably.

13 Q. Okay.

14 A. I heard other witnesses from the Division say the
15 same thing.

16 Q. And you're reasonable --

17 A. Go ahead.

18 Q. In your experience, do those types of
19 low-pressure emissions, do they constitute flaring as people
20 commonly understand it?

21 A. No, they do not.

22 Q. And more importantly, do they constitute venting
23 as regulators in the industry normally understand those
24 terms?

25 A. No, just specifically the example of Colorado.

1 They clearly take those low-pressure sources out of the
2 definition itself.

3 Q. Okay. Let's go to what's been marked as NMOGA
4 Exhibit C-9.

5 A. I've got that.

6 Q. Now, does NMOGA's proposed change to the
7 definition of vent or venting match what Colorado identified
8 as venting?

9 A. Yes, it does, verbatim.

10 Q. And more importantly, do the exclusions and
11 descriptions of what does not constitute vent or venting
12 match up with what Colorado likewise determined does not
13 constitute vent or venting?

14 A. Yes, that is correct.

15 Q. Okay. And understand we've got a couple of
16 minutes here. If you look at C-9 and you see the
17 Subparagraph 1.

18 A. Yes.

19 Q. 7? Do you see one of the removals from the
20 definition of venting is the emission of gas from devices or
21 equipment, such as pneumatic devices and pneumatic pumps
22 that are designed to emit as part of normal operations?

23 A. I see that.

24 Q. Those are the low-pressure sources you were
25 referencing?

1 A. Yes, exactly. Some of them.

2 **Q. And we see Subparagraph 2, unintentional leaks**
3 **that are not the results of inadequate equipment design,**
4 **what are they talking about there, both in Colorado and in**
5 **our proposal?**

6 A. Those, those -- that term refers to the typically
7 very, very small leaks that you will get from equipment,
8 maybe brand-new equipment, valves, and connections, and
9 things like that are -- they may leak a little, I'll say
10 leak, they release a little bit of gas but they are
11 basically -- it's not waste, it's not true venting, and, in
12 fact, fall under the purview of NMED as this is the type of
13 thing that they look at in our programs.

14 **Q. In Subparagraph 3 when any reference tanks**
15 **there --**

16 A. Correct.

17 **Q. -- what are they talking about, what type of**
18 **equipment?**

19 A. Well, they start off with an exception, let's
20 see, downstream of a tank, unless there's no separation
21 occurring in the equipment upstream of a tank.

22 So if you had a situation where you were, and
23 I've seen this before in some, what I will call (unclear)
24 operations, if you take your full well stream to the tank
25 and don't separate the gas before you do so, in essence,

1 you'd be releasing the gas from the well. That would not
2 be, if you will, that would not be excluded from the
3 definition of venting.

4 Second part, separation equipment is not
5 sufficiently sized to capture the entrained gas. I think
6 that speaks for itself. Before the natural gas is being
7 sent to the tank during circumstances with the gas cannot be
8 sent to the gathering line or combustion equipment used to
9 (unclear) gas is not operating. That is basically if you
10 make a recovery and it's inoperational for a repair or
11 something like that (unclear).

12 **Q. In your opinion, does the NMOGA's proposed**
13 **changes to the definitions of flaring and venting conform**
14 **with the common understanding of those terms by oil and gas**
15 **engineers and operators?**

16 A. It does.

17 **Q. And does the change properly focus the effort on**
18 **the activities that actually constitute surface waste?**

19 A. It does.

20 MR. FELDEWERT: Okay. Madam Hearing Officer and
21 Madam Chair, and members of the Commission, I think we are
22 at the time I had to end, right?

23 HEARING EXAMINER ORTH: Yes. Thank you very
24 much, gentleman, for bringing us to this time.

25 We will now adjourn for the evening. I would

1 like to reconvene at 8 a.m. We will accept the one public
2 commenter that we have signed up at 8:30, but I would like
3 to see you at 8 and we'll proceed through tomorrow. So
4 thank you all and have a good evening.

5 MR. FELDEWERT: Thank you.

6 (Adjourned.)

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1 STATE OF NEW MEXICO
2 COUNTY OF BERNALILLO

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4 REPORTER'S CERTIFICATE

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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 7th day of January 2020.

18

/s/ Irene Delgado

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Irene Delgado, NMCCR 253
License Expires: 12-31-21

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