

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

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

ORIGINAL

APPLICATION OF FRONTIER FIELD  
SERVICES, LLC FOR AUTHORIZATION  
TO INJECT, LEA COUNTY, NEW MEXICO.

CASE NO. 15193

REPORTER'S TRANSCRIPT OF PROCEEDINGS

COMMISSION HEARING

September 25, 2014

Santa Fe, New Mexico

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BEFORE: JAMI BAILEY, CHAIRPERSON  
TERRY WARNELL, COMMISSIONER  
ROBERT S. BALCH, Ph.D., COMMISSIONER  
BILL BRANCARD, ESQ.

This matter came on for hearing before the  
New Mexico Oil Conservation Commission on Thursday,  
September 25, 2014, at the New Mexico Energy, Minerals  
and Natural Resources Department, Wendell Chino  
Building, 1220 South St. Francis Drive, Porter Hall,  
Room 102, Santa Fe, New Mexico.

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Frontier Field Services, LLC Exhibit Numbers 1 and 2 49

1 (9:04 a.m.)

2 CHAIRPERSON BAILEY: We now have Case  
3 Number 15193, which is the application of Frontier Field  
4 Services, LLC for authorization to inject acid gas and  
5 carbon dioxide from its Maljamar Processing Plant into  
6 the proposed Maljamar AGI Well Number 2, to be drilled  
7 at a surface location in Section 21, Township 17 South,  
8 Range 32 East, in Lea County, New Mexico.

9 Call for appearances.

10 MR. BRUCE: Madam Chair, Jim Bruce of  
11 Santa Fe representing the Applicant. I have two  
12 witnesses.

13 MR. WADE: Good morning. Gabriel Wade  
14 representing the Oil Conservation Division. There will  
15 be one witness, Mr. Phil Goetze.

16 CHAIRPERSON BAILEY: Mr. Bruce, do you want  
17 to make an opening statement?

18 MR. BRUCE: I don't think so. I think the  
19 first few slides on the PowerPoint presentation will  
20 suffice.

21 CHAIRPERSON BAILEY: Mr. Wade, would you  
22 like to make an opening statement?

23 MR. WADE: No, other than the OCD does not  
24 oppose the application of Frontier. We do have some  
25 conditions we would like to discuss with the Commission.

1 CHAIRPERSON BAILEY: If you would call your  
2 witness and have him sworn in.

3 MR. BRUCE: First let me start with the  
4 first few PowerPoint slides, and then we'll get  
5 Mr. Bryant to come up.

6 CHAIRPERSON BAILEY: So you have no witness  
7 to --

8 MR. BRUCE: Just for a few introductory  
9 remarks.

10 CHAIRPERSON BAILEY: Okay.

11 OPENING STATEMENT

12 MR. BRUCE: As you said, Madam Chair, we're  
13 here for the application of Frontier Services for its  
14 Maljamar AGI Well No. 2. Today we will be presenting  
15 two witnesses. One of them is Mr. Coy Bryant. He is  
16 the director of Operations at Aka Energy Group, LLC,  
17 which is the parent of Frontier. And, of course,  
18 Mr. Gutierrez of Geolex, who you have seen before you  
19 many times, will be the geologist testifying on behalf  
20 of Frontier.

21 The goals of the presentation today,  
22 Mr. Bryant will testify about the history and the  
23 benefits of Frontier's AGI project, a little bit about  
24 gas plant operations and information about Frontier's  
25 activities in New Mexico. And Mr. Gutierrez will

1 discuss the geology, hydrogeology system and operation  
2 and an analysis and anticipated effect on the injection  
3 zone. And he will go through the basics of the C-108 in  
4 front of you. He won't go page by page through the  
5 C-108. If you have specific questions, feel free to  
6 ask, but the PowerPoint presentation, in effect,  
7 presents the highlights of the C-108.

8 And with that, I would call my first  
9 witness Mr. Bryant.

10 CHAIRPERSON BAILEY: Would you please stand  
11 to be sworn?

12 COY BRYANT,  
13 after having been first duly sworn under oath, was  
14 questioned and testified as follows:

15 MR. BRUCE: Madam Chair, I don't intend to  
16 introduce Mr. Bryant as an expert, although we will go  
17 back into his educational and employment background very  
18 briefly.

19 DIRECT EXAMINATION

20 BY MR. BRUCE:

21 Q. Mr. Bryant, could you state your name and city  
22 of residence?

23 A. Coy Bryant, Durango, Colorado.

24 Q. And your title is Director of Operations at  
25 Aka?

1           A.    Correct.

2           Q.    Could you describe briefly for the  
3 Commissioners your educational and employment  
4 background?

5           A.    I have a bachelor of science in civil  
6 engineering from Texas Tech University and a master of  
7 science in nuclear energy from the University of Texas  
8 at Austin. I've worked for ExxonMobil, Kinder Morgan  
9 and CO2 Company and now, most recently, with Aka Energy.

10          Q.    And as the director of operations, what are  
11 your typical duties?

12          A.    To support our ongoing operations from an  
13 reliability, safety, environmental compliance  
14 perspective.

15          Q.    Looking at slide four, could you go a little  
16 bit into the Maljamar Gas Plant and its benefits and the  
17 basic reason why you need this redundant gas well --

18          A.    Okay.

19          Q.    -- gas injection well?

20          A.    So our Maljamar Gas Plant is located near  
21 Maljamar, New Mexico, down in southeast New Mexico. We  
22 employ approximately 35 full-time Frontier Field  
23 Services employees, not including contractors.

24                   THE WITNESS: Sorry. Am I going too fast?

25                   (The court reporter responds.)



1                   THE WITNESS: We serve about 70 producers  
2 in the area and approximately 1,500 wells that deliver  
3 into our facility. The plant currently produces about  
4 95 million cubic feet of sour gas, feet [sic] gas and  
5 about -- of that, we generate about 1.4 million cubic  
6 feet of treated acid gas, which has a composition of  
7 about 12 percent H2S and 88 percent CO2.

8           Q.     (BY MR. BRUCE) Now, the AGI No. 1 well, which  
9 you previously got permitted, that is in operation?

10          A.     Correct. Yes.

11          Q.     What would happen if that well goes down?

12          A.     We would have to cut back our inlet gas, which  
13 means we'd have to cut back producers substantially.

14          Q.     So it would not only affect Frontier, it would  
15 affect a number of operators in the area?

16          A.     That's correct.

17          Q.     Moving on to the next one, could you discuss  
18 slide five?

19          A.     Sure. So back in August of 2011, we received  
20 approval to drill our first AGI well. We put that into  
21 operation in the summertime of 2013. We expected lower  
22 than expected permeability in the injection zone, which  
23 caused our surface injection pressure to be much higher  
24 than originally designed for, so we had to upgrade our  
25 facilities to achieve that higher injection pressure.

1 And the well is functional, and all facilities are in  
2 operation right now. We're injecting our 1.4 million  
3 cubic feet of acid gas per day. We recently had our  
4 annual MIT that was successful on September 17th, and we  
5 continue to operate within the permitting -- permitted  
6 guidelines.

7 Q. And could you move to the next slide and  
8 discuss the reasons why you want the redundant No. 2  
9 well.

10 A. Okay. So as stated earlier, if we lose our  
11 well, the AGI No. 1, we will have to cut back  
12 substantially on our inlet gas, which not only affects  
13 us but affects our customers, the producers in the area,  
14 and it -- with the redundancy, it will allow us to more  
15 effectively maintain our air quality permit guidelines.  
16 That's the purpose.

17 Q. Now, what is the current maximum allowable  
18 injection rate?

19 A. Of our current well?

20 Q. Of the No. 1 well.

21 A. I believe it's 2 million cubic feet a day.

22 Q. Is it 1.8 million?

23 A. Okay. 1.8 million.

24 Q. And you're requesting two million in this well?

25 A. That's correct.

1 Q. And is that to be used by either well or both  
2 wells together?

3 A. I'm sorry?

4 Q. The 2 million rate, would that apply to either  
5 well --

6 A. Right.

7 Q. -- being used solely, or could it be used for  
8 both wells together?

9 A. It could be used for both wells, correct.

10 Q. And I suppose one final question: Have there  
11 been any operational issues other than the permeability  
12 being less than what you thought it was at the  
13 operations of that well at the plant?

14 A. They [sic] have.

15 MR. BRUCE: Madam Chair, I have no further  
16 questions of the witness.

17 CHAIRPERSON BAILEY: Mr. Wade, do you have  
18 any questions?

19 MR. WADE: No questions.

20 CHAIRPERSON BAILEY: Commissioner Warnell?

21 COMMISSIONER WARNELL: Yes. I have a few  
22 questions.

23 CROSS-EXAMINATION

24 BY COMMISSIONER WARNELL:

25 Q. Good morning, Mr. Bryant.

1 A. Good morning.

2 Q. How long have you been with Aka?

3 A. I'm on my fifth week (laughter).

4 Q. Fifth week (laughter). Well, welcome aboard.

5 A. Thank you. It's good to be here.

6 Q. This is quite an orientation for you.

7 Okay. Well No. 1 is permitted right now at  
8 1.8 million, and you're asking for that to be increased  
9 to 2 million?

10 A. No, sir. The injection rate on our AGI No. 2  
11 is the 2 million cubic a day.

12 MR. BRUCE: Let me correct that,  
13 Mr. Examiner.

14 COMMISSIONER WARNELL: I'm confused.

15 MR. BRUCE: We're asking two things.  
16 Number one, to approve the No. 2 well and to increase  
17 the maximum injection rate for both wells together from  
18 1.8 to 2 million. And Mr. Gutierrez will discuss the  
19 reasons for that.

20 COMMISSIONER WARNELL: Ah, yes,  
21 Mr. Gutierrez. That's probably my third question  
22 because I'm really curious as to why the permeability in  
23 this well is going to be better than the No. 1 well.

24 MR. BRUCE: And he's going to discuss that.

25 COMMISSIONER WARNELL: Thank you.

1                   COMMISSIONER BALCH: I have a follow-up  
2 question from Commissioner Warnell.

3                   CROSS-EXAMINATION

4 BY COMMISSIONER BALCH:

5           Q.    The current Maljamar No. 1 has a panel [sic] of  
6 1.4 mmcfs per day.

7           A.    Right.

8           Q.    And that's after upgrades surface facilities to  
9 allow that prior injection rate -- prior injection  
10 pressure at the surface. Will those upgrades allow the  
11 2.0 that you're now requesting for that well?

12          A.    Yes. The current facilities?

13          Q.    Yes.

14          A.    Yes, they will.

15          Q.    Okay.

16          A.    We're in the process of -- well, we have a  
17 project ongoing that we want to install additional  
18 facilities, but, again, for redundancy.

19          Q.    And how close are you now to the maximum  
20 injection -- surface injection pressure on that No. 1  
21 well?

22          A.    We are well below, if I'm not mistaken.

23          Q.    Well below? I presume Mr. Gutierrez will have  
24 more data?

25          A.    Yes. He'll provide those details.

1 Q. Thank you.

2 CROSS-EXAMINATION

3 BY CHAIRPERSON BAILEY:

4 Q. You mentioned that if the current well should  
5 go down, then there wouldn't necessarily be shut-ins in  
6 the wells that contribute gas to your plant?

7 A. There will be, yes.

8 Q. I'm looking at the surface ownership by tract  
9 in Appendix C, and I'm seeing that it appears as though  
10 most of the wells that contribute gas to your plant are  
11 located on BLM land. Are you aware of land  
12 ownerships or --

13 A. I apologize. I'm not as familiar with the land  
14 ownership for the surrounding -- or for the producing  
15 assets. I'm not.

16 Q. So you don't know where the gas comes from, is  
17 what I'm trying to get at?

18 A. I don't. Mr. Gutierrez can probably provide  
19 those details. I apologize. You know, I'm still trying  
20 to get my hands around everything going on out there.  
21 I've been focusing on the plant, not necessarily the  
22 field.

23 Q. And you have a steep learning curve.

24 A. I do have a steep learning curve.

25 Q. Thank you. I don't have any other questions.

1                   CHAIRPERSON BAILEY: Do you have any other  
2 questions?

3                   MR. BRUCE: No, I don't, Madam Chair.

4                   I would say that if you -- Mr. Gutierrez  
5 can testify. His office did a lot of the land ownership  
6 stuff. This is a heavily federal minerals area, and if  
7 you'd like more information on that, I can certainly  
8 obtain some of that, some BLM plats and stuff like that  
9 that you can see the type of operations in that area.

10                  CHAIRPERSON BAILEY: Page 4 of Appendix C  
11 gives me a pretty good idea of land, surface ownership  
12 and mineral owner by tracts.

13                  MR. BRUCE: Yeah. So --

14                  CHAIRPERSON BAILEY: That's all we have.  
15 You may be excused.

16                  THE WITNESS: Okay. Thanks.

17                  MR. BRUCE: Call Mr. Gutierrez to the  
18 stand.

19                               ALBERTO A. GUTIERREZ,  
20 after having been first duly sworn under oath, was  
21 questioned and testified as follows:

22                               DIRECT EXAMINATION

23 BY MR. BRUCE:

24           Q.    Mr. Gutierrez, where do you reside?

25           A.    I live in Albuquerque, New Mexico.

1 Q. And what is your relationship to Geolex,  
2 Incorporated?

3 A. I'm the president of Geolex.

4 Q. What is Geolex's association with Frontier?

5 A. We are a consultant to Frontier. We located,  
6 designed and permitted and oversaw the construction of  
7 the AGI No. 1, and then we were retained to identify a  
8 location for a redundant AGI, No. 2, which resulted in  
9 this application.

10 Q. And have you previously testified before the  
11 Commission?

12 A. I have.

13 Q. And were your credentials as an expert  
14 geologist accepted as a matter of record?

15 A. Yes, as a petroleum geologist and  
16 hydrogeologist.

17 Q. And are you familiar with the application,  
18 especially the C-108, submitted to the Commissioners for  
19 this application?

20 A. Yes. I prepared the C-108 in conjunction with  
21 other folks in my office.

22 Q. And you're obviously familiar with the geologic  
23 matters involved in this application?

24 A. Yes, sir.

25 MR. BRUCE: Madam Chair, I'd tender



1 Mr. Gutierrez as an expert geologist.

2 CHAIRPERSON BAILEY: He is accepted.

3 Q. (BY MR. BRUCE) Mr. Gutierrez, rather than  
4 interrupt you too much and slow you down, why don't we  
5 start with slide seven, the Executive Summary, and let's  
6 move on from there?

7 A. Sure.

8 Frontier's requesting a permit to construct  
9 a second acid gas injection well into the same reservoir  
10 that the current well is designed and is operating. The  
11 well would be injecting into the lower Wolfcamp at  
12 approximately 10,000 feet -- roughly between about 9,900  
13 and about 10,150 feet in their No. 1 well, and we  
14 believe it will be essentially the same general depths  
15 in the No. 2 well, even though the No. 2 well will be  
16 located approximately half a mile -- the bottom-hole  
17 location will be located approximately half a mile away  
18 from the No. 1 well.

19 There are no active wells that penetrate  
20 the lower Wolfcamp within the half-mile radius area of  
21 review. There are -- well, within the one-mile area of  
22 review, there is another well that is a saltwater  
23 disposal well, which I'll discuss a little bit in the  
24 context of the question which Commissioner Balch raised  
25 about the permeability. And I'll talk about that in a

1 little bit.

2 Then there is only one plugged and  
3 abandoned well within the half-mile area, and that is  
4 the Queen B 036, which was already evaluated as well in  
5 the previous application because it was within the area  
6 of review of the No. 1 well as well. And that's  
7 properly plugged and completely isolated in the proposed  
8 injection zone.

9 After we take into account the irreducible  
10 water and with the information that we have the No. 1  
11 well, we were able to refine our estimate of the extent  
12 of the plume after 30 years of injection, and that  
13 extent is approximately 140 acres and with a radius of  
14 about a quarter mile from the well. It's not too  
15 different than what we anticipated for the No. 1 well.

16 When you look at the 100 percent safety  
17 factor, we're still well under half mile with a radius  
18 of about 3.7 miles.

19 Q. One question on this chart. It talks about the  
20 maximum operating surface pressure of 3,200 psi. What  
21 is the currently approved maximum pressure?

22 A. 3,200 psi.

23 Q. It is?

24 A. Yes, sir.

25 Q. So it's slightly above the 3,200 psi preferred

1 depth?

2 A. It is, because we did a step-rate test and were  
3 able to obtain an increase in the allowable pressure.

4 So we don't get any further without  
5 answering the question that was asked earlier about the  
6 operating pressure, we're currently injecting at about  
7 2,400. And it was originally anticipated that the well  
8 would probably be able to inject at about 15- or 1,600  
9 psi given the bottom-hole pressure, but what happened,  
10 basically, is we got lower permeability than we  
11 expected. The porosity is good, but we got a little bit  
12 less permeability than we anticipated. And I'll go into  
13 that in more detail later and why we think the new well  
14 will be better.

15 Q. Okay.

16 A. We have designed -- and the last well was  
17 designed -- now, the difference between 1.8 and  
18 2 million cubic feet a day really doesn't make any  
19 difference in the design of the well. We have requested  
20 this about ten-percent increase in the injection rate  
21 and have modeled the injection at this higher rate, and  
22 that's because what we're seeing is we're seeing a  
23 little bit more increase in CO2 associated with this gas  
24 than what we anticipated originally. And as these wells  
25 come online, what we're seeing is that -- actually, the

1 ratio is skewing a little bit more towards maybe 89  
2 percent or maybe 90 percent CO2 and 11 -- 10 to 11  
3 percent H2S. We're just getting a little more CO2 than  
4 anticipated and that's what would make up the bulk of  
5 that 200,000 additional cubic feet a day.

6 The injected fluid composition, roughly,  
7 right now is about 12 percent H2S and 88 percent CO2.  
8 The injected fluid compatibility has been determined and  
9 preexisting by looking at the available information on  
10 the formation fluids, and then, obviously, with our  
11 injection experience into the No. 1, we have  
12 anticipated -- haven't encountered nor do we anticipate  
13 any problems with compatibility of the formation fluid.

14 We've got a maximum allowable operating  
15 pressure of 3,200 psi for the current well.

16 Q. And just to be perfectly clear, you're not  
17 seeking a 2 million cubic feet injection rate for each  
18 well individually?

19 A. Absolutely not, no. The sum total will be  
20 2 million.

21 Just so you can see where the plant is  
22 located, the gas plant is located right here  
23 (indicating) just a few miles south of Maljamar, right  
24 after the main road there. It's pretty easy to see.  
25 It's an area, as Commissioner Bailey mentioned, is

1 largely federally owned surface and federally owned  
2 minerals, although there are some state minerals. And  
3 the gathering system extends quite a bit further than  
4 the immediate vicinity of the plant and does tap a  
5 number of state leases as well and fee leases.

6 I just want to mention that on this slide  
7 and the following slide -- and I'd be happy to make this  
8 electronic version available to the Commissioners -- I  
9 highlighted in red. It looks kind of like dark brown,  
10 but on my screen, it's red, this bullet about the H2S  
11 contingency plan, and it's different than what you see  
12 in your presentation because the H2S contingency plan --  
13 in your presentation, the original H2S contingency plan  
14 was submitted in May of 2011 and that's correct, but it  
15 was subsequently modified when the well was put in. And  
16 before it went into effect, it was approved by the  
17 Division in November 2012. So that's -- the well really  
18 didn't get started until December or January -- December  
19 of 2012, January 2013 because of the requirement to  
20 upgrade those facilities. So I just thought it would be  
21 more useful for the Commission to know when the plan was  
22 approved rather than when it was submitted. So that's  
23 why I changed these slides, so you would have that  
24 information. And the same comment goes for the  
25 statement on the next slide.

1                   Basically the reason why Frontier wants a  
2   redundant well is basically because their plant depends  
3   on this AGI No. 1 in order to be able to operate. They  
4   have the ability to do a very limited amount of flaring  
5   in an emergency situation based on their air permit,  
6   but, fundamentally, if there was a real problem with the  
7   AGI No. 1, which we haven't encountered one to date, but  
8   if there were to be a problem, basically the plant's  
9   dead in the water and so are 1,500 other wells in the  
10  area. They would have to be shut in very quickly. They  
11  be able to flare for a day or something like that, but  
12  beyond that, they'd have to shut them in.

13                  And that's particularly important because  
14  unlike many other gas processors in southeast  
15  New Mexico, this is Frontier's only plant there. So  
16  they do not have the ability to shunt that gas to  
17  another plant in order to be able to keep those wells  
18  online. So it's a critical -- critical well. And when  
19  we experience the lower than anticipated permeability  
20  and this being the major asset that Frontier has in  
21  New Mexico, the president of Frontier, Mr. Briscoe,  
22  contacted me and said, Look, we need to find another  
23  well because we want to make sure that if we have some  
24  challenges with the first well, that down the road we  
25  have another well that we can rely on.

1                   And so they asked us originally to try to  
2     find another zone that might have better permeability.  
3     Unfortunately, in this area, there just isn't. I mean,  
4     there are better zones that have better permeability and  
5     better porosity that are shallower, but fortunately for  
6     the producers, unfortunately for us, they're producing,  
7     so we really can't use those zones. And deeper than the  
8     Wolfcamp there, there is some potential for future  
9     production, and also there's just not very good  
10    information about what those reservoirs are. So we're  
11    basically in the same reservoir.

12                   However -- and we'll go into this when we  
13    go into the geology in detail -- after we had our first  
14    well permitted and we were in the process of drilling  
15    it, Cimarex requested and applied for a saltwater  
16    disposal well to be located about a mile and a quarter  
17    to a mile and a half to the southwest of the plant and  
18    into the same reservoir that we're injecting into. And  
19    the Division at the time contacted us and said, you  
20    know, You should take a look at this and see if you have  
21    any concerns or whatever.

22                   So we met with Cimarex, and we exchanged  
23    information. And we were convinced that their well  
24    would not negatively impact our -- it was sufficiently  
25    far away, and there are some structural issues closer to

1     their well that we thought would prevent there being any  
2     real effect from their injection to our well. So we  
3     didn't object to that application.

4                     And, in fact, it's been a very cooperative  
5     effort. We gave Cimarex our logs and our core data,  
6     because we cored the first well and we logged it in  
7     detail, and they used that. And when they completed  
8     their well about a year ago, they found that their zone  
9     looked -- on the logs, it looks almost identical to  
10    ours, but -- and so the porosity's essentially very  
11    similar, identical, but their permeability is a lot  
12    better.

13                    And so clearly we had data from -- old data  
14    from the Queen B 36, which is between where our new  
15    proposed bottom-hole location is and where Cimarex's  
16    well is, and that also had better permeability. So we  
17    know that diagenetically the permeability increases in  
18    that southwesterly direction.

19                    And so consequently we talked to Cimarex  
20    and said, Okay, here's what we want to do. We want to  
21    put a well closer to your well, take advantage of the  
22    better permeability. And we put our heads together and  
23    decided okay, how close can we get to the well where we  
24    feel that we're not interfering with yours and you're  
25    not interfering with ours? And we came up with not any



1 closer than half a mile. And so we agreed. That's why  
2 Cimarex has no opposition. In fact, they support the  
3 project. So that's how it came to be where we had  
4 located the well.

5           So I think I've covered some of these  
6 things in the slide, but I will mention that the  
7 injection reservoirs, we have evaluated them not only  
8 with the existing wellbore data but also with 3D  
9 seismic, because there was a lack of very detailed data  
10 because there are not too many wells that penetrate that  
11 zone in the area initially. So we had found a location  
12 for the No. 1 well with seismic, and we did the same  
13 thing and reviewed that seismic again. But, of course,  
14 by the time we did the second well, we had core data and  
15 very detailed log information from our first well that's  
16 been particularly helpful.

17           So furthermore, I just want to mention that  
18 we have also submitted -- because this well is on BLM  
19 surface and BLM minerals, it requires an APD from the  
20 BLM, and we submitted that in June, and really it's  
21 still pending review. The BLM is way backlogged in  
22 terms of their review of APDs. And generally, for AGIs,  
23 they don't do much on them until this body acts. So  
24 that's kind of where we are.

25           All the parties have been individually

1 noticed as required, and originally the hearing was set  
2 for September 11th. It had been moved to today, and we  
3 advised all the people who were noticed of that change  
4 as well, and there have been no objections. In fact,  
5 the producers really support the project.

6               So as I mentioned, just to give a little  
7 further information about the notice, we noticed all of  
8 the surface owners, operators and leaseholders within a  
9 mile radius of the proposed well. Also, there was a  
10 notice of the application that was published in the  
11 Hobbs News-Sun, and we have not received any objections.  
12 As I mentioned, in fact, the producers are quite happy  
13 that this is going on because they were not happy when  
14 we had struggles with our permeability in the first  
15 well, and it took longer than anticipated to get that  
16 first well going because we had to upgrade the surface  
17 facilities to provide a higher surface injection  
18 pressure.

19               Of course, the H2S plan, which is currently  
20 approved for the facility, has a single well in it. The  
21 new H2S plan will not change substantively. We've  
22 already spoken to Carl Chavez of the OCD about that, and  
23 we will, of course, resubmit a new plan for approval  
24 that incorporates a second well.

25               But because the surface location of the two

1 wells will be relatively close together, about 450 feet  
2 apart, there's not going to be much of a difference in  
3 terms of the ROE for the new H2S contingency plan. In  
4 fact, instead of having just one circle around the amine  
5 unit and one around the old well, we'll have three  
6 circles, one around the new well, one around the old  
7 well and one around the amine unit. We don't anticipate  
8 any significant challenges there.

9           And I'm sure -- I apologize in advance to  
10 the Commissioners because they've heard a lot of this  
11 before, and I'll try to make it as interesting as  
12 possible. And I think you will enjoy this one because  
13 we do have some seismic, and it's a little different  
14 than our normal evaluation.

15           But the bottom line is we're still looking  
16 for the same kind of reservoir. We're looking for one  
17 that has the ability to permanently contain the gas that  
18 is being injected and disposed of in the reservoir.  
19 It's isolated from fresh groundwater. We are looking  
20 for a reservoir that's not going to create an effect --  
21 a negative effect on existing or potential production.  
22 We want something that's laterally extensive and, of  
23 course, permeable with good porosity, and we want some  
24 excess capacity for the anticipated injection volumes,  
25 and, of course, a compatible fluid chemistry. And both

1 the AGI No. 1 and the AGI No. 2 meet all those criteria,  
2 but obviously for the No. 2, we're looking for a little  
3 better permeability to result in a little lower surface  
4 injection pressure.

5 Q. What records did you search when you were  
6 looking for this geologic structure you wanted to use?

7 A. Well, we used all of the available well log  
8 information from the area. We used -- we obtained  
9 three-dimensional seismic, which we analyzed. It was  
10 part of the analysis for the permitting of the AGI No.  
11 1. And furthermore and perhaps most importantly, we had  
12 the data from two wells that didn't exist when we first  
13 permitted the No. 1, which is our own No. 1 well, and  
14 then the Cimarex Pearsall SWD well.

15 Q. Was that a new well?

16 A. Yes, it was. They drilled that well as a new  
17 well for saltwater disposal.

18 As I mentioned, you know, there are a lot  
19 of wells in this area, but most of them are shallow  
20 wells. So within two miles of the proposed AGI or  
21 within two miles of the plant, if you will, there is  
22 about 780 wells in that area of which there are 31 wells  
23 that penetrate the Wolfcamp. Twenty of those are active  
24 wells, and 11 are plugged and abandoned.

25 Within a half mile of the AGI No. 2,

1     there's only two wells that penetrate the Wolfcamp. One  
2     is the Queen B 36, which was plugged and abandoned a  
3     long time ago, before we ever drilled the No. 1 well,  
4     and then the second one is, of course, our own No. 1  
5     well.

6                     Based on the stratigraphic information that  
7     we have and the 3D seismic, we have identified the zone.  
8     It's an excellent acid gas reservoir. It could have a  
9     little better permeability in the area of No. 1, but  
10    it's still a very good reservoir and meets the criteria  
11    that we're looking for.

12                    We got this information, as I mentioned,  
13    based on all of the sources that I just went over, and  
14    we feel comfortable that this injection is not going to  
15    negatively affect either current or potential production  
16    and certainly not surface or groundwater.

17           Q.     Are there many freshwater ground -- freshwater  
18    sources in this area?

19           A.     There are not, and I'll go through that a  
20    little bit later in my presentation.

21                    But there's basically just a couple of  
22    shallow wells in the area, and, frankly, there is just  
23    not very much groundwater there. But whatever there is  
24    is in the shallow alluvium and a little bit in the  
25    Dockum Group.

1           The general structural features -- I'm sure  
2 all the Commissioners are very familiar with this, but  
3 just so you know where we are, we're off the  
4 northwestern shelf, and we're in a series of kind of  
5 detrital carbonates that come off of that shelf in the  
6 Wolfcamp. And you'll see how those things show up and  
7 how those porosity fairways show up in the seismic when  
8 we get to that.

9           Generally, this is what we're looking at  
10 (indicating). We're kind of looking at the Maljamar  
11 Plant having been, essentially, on a shelf margin, and  
12 we get some of these detrital carbonates that are coming  
13 off of the shelf, coming off of the shallow waters  
14 across reefs and onto the shelf there.

15           You can see this, a long strike in the  
16 Wolfcamp. You tend to have these little hills and  
17 canyons. And if we look at this cross section here  
18 (indicating), it's a structure section through the  
19 interval in the -- the permal [phonetic; sic] pen  
20 interval, and you can see that that interval is  
21 approximated by the red bar that we have in there. And  
22 you've got a series of wells that show varying degrees  
23 of porosity interbedded throughout the section here.  
24 And these are some wells -- it doesn't include the  
25 well -- our well because it's off of this section line

1 (indicating), but what we see in our well is very  
2 similar to what is shown in the COG Operating Federal B  
3 No. 1.

4 I will also mention that the Division  
5 has -- we did not submit it for just trying not to kill  
6 any more trees, but we have about a seven- or eight-inch  
7 thick end-of-well report, which we submitted to the  
8 Division, that has all of the detailed information from  
9 the No. 1 well, including all of the core analyses and  
10 all of the detailed log interpretation. And the  
11 Division has that detailed information on the No. 1  
12 well.

13 Well, originally, when we first evaluated  
14 this area, we just had a real scarcity of good logs to  
15 characterize the Wolfcamp because there just weren't  
16 that many penetrations in this area. So what we did is  
17 we obtained 3D seismic over this cup for about  
18 one-and-a-half square mile area of the facility. And we  
19 took three wells that we had sonic logs for, and we  
20 constructed synthetic seismic profiles of those logs and  
21 those wells in order to key in our 3D seismic for our  
22 interpretation there.

23 When you look at what we found in the  
24 seismic in cross section, what we found is in the -- you  
25 can see right here (indicating) we've got the lower

1 Leonard and then the top of the lower Leonard; then we  
2 have the top of the Wolfcamp. And then down here in the  
3 lower Wolfcamp, these areas that are -- these red areas  
4 (indicating) are the, kind of, porosity sweet spots that  
5 we see in the -- in the seismic. We saw a couple here  
6 (indicating) in the lower Leonard, and then we see some  
7 really good development here (indicating).

8 Now, if you go all the way down towards  
9 here, this area (indicating), this is where -- it's a  
10 little further off this cross section, but you can see  
11 some pretty good development of those zones right in  
12 this area. And this out here (indicating) is where the  
13 Pearsall Cimarex well is located. Our well is actually  
14 located more off of this -- this really nice zone right  
15 here (indicating), our well is located here to the east.

16 Q. The No. 1 well?

17 A. The No. 1 well, that's correct.

18 And this is that plugged Baish well, and  
19 you can see there is some very good -- it goes right  
20 through the center of this sweet spot (indicating).  
21 Now, you might ask, Why didn't we drill in this location.  
22 the first time? Well, I mean, I will mention that, you  
23 know, as a geologist, we're just interested in what is  
24 the best situation in the subsurface, but our client was  
25 particularly interested in having their well on the east



1 and north side of their plant and the east side as well  
2 because they really didn't have room anywhere else on  
3 the plant to put the well, and they had obtained this  
4 lease from the BLM. And so we drilled -- our original  
5 recommended location was west of the plant, but he ended  
6 up drilling the well and proposing it on the east side  
7 of the plan because we thought okay, we still have a  
8 good enough reservoir. It's not the sweetest spot. But  
9 we probably should have -- in hindsight, we probably  
10 should have angled the well further to the west, the  
11 first well, and we may not have had these permeability  
12 issues. But still we would have the need for a second  
13 well just for redundancy purposes.

14 But one of the things we did is take time  
15 slices in the lower Wolfcamp, and you can see that while  
16 there is some pretty good development here (indicating),  
17 when you are looking at where the Baish well is over  
18 here (indicating), you're kind of in this holiday [sic],  
19 in this zone, and this had quite a bit of better  
20 permeability than we see in our well.

21 Currently what we're proposing for the new  
22 well is going to have a bottom-hole location in  
23 approximately this -- this area right here, just west of  
24 the plant (indicating). The surface location will be  
25 about here (indicating). And we'll go into that in more

1 detail in a minute.

2           We also identified -- and I haven't covered  
3 these in this presentation, but in the original  
4 presentation, in the lower Leonard above the Wolfcamp,  
5 there was also a potential injection zone. When we  
6 drilled through it, we elected in the first well -- even  
7 though we were permitted to inject into both of those  
8 zones, in the first well, we elected not to exploit the  
9 lower Leonard because it looked like it might be even a  
10 little bit tighter than the lower Wolfcamp. So we left  
11 that behind pipe and when -- we actually came back to  
12 the Commission and requested that we not complete in the  
13 lower Leonard but only in the Wolfcamp, and that's what  
14 we did in this well.

15           You can see the area that -- we completed  
16 our first well in here (indicating). And, you know,  
17 just strictly on the seismic, it doesn't look as porous  
18 here to the west, but we know that the permeability is  
19 better there because of the Baish Number 36 and the  
20 Cimarex well, which is a little further.

21           So this is a structure map (indicating),  
22 and we also show the area of highest porosity within  
23 this dashed line (indicating). The dip is towards the  
24 south here (indicating), and, again, our new well -- you  
25 can't just rely on the seismic because what we see is

1     that the permeability just really does -- the porosity  
2     stays pretty similar, but the permeability tends to  
3     increase in this direction (indicating). And then we  
4     actually lose some porosity, and we pick it back up  
5     towards the southwest here. We haven't extended it that  
6     far, but we know that from the Pearsall well.

7                 So the proposed Maljamar No. 2 location is  
8     in this area right here (indicating). And you can see  
9     that when we combine all of the zones, we have some  
10    significant excess capacity, but, again, we're only  
11    going to use the lower Wolfcamp. So that is the largest  
12    capacity from porosity of any of these (indicating),  
13    which has a porosity total of about 24 million barrels  
14    in the area.

15                So when we look at the calculated volume of  
16    TAG after 30 years at this 2 million rate, we're looking  
17    at filling up something like about 38 percent or so of  
18    the reservoir that we would occupy, and that translates  
19    to about 139 acres and a radius of about .26 miles.

20                This is a composite log section of the  
21    Wolfcamp SWD well that was -- that was drilled to the  
22    west. This is not the -- this is not the Pearsall well,  
23    Cimarex well but another well that is drilled south, and  
24    we've got quite a good zone in that well with, you know,  
25    porosities that range from about 10 to 18 percent in

1     this area. And this zone is not laterally connected to  
2     our wells, but it is similar in geology to what we've  
3     seen.

4                     This is a type section (indicating), if you  
5     want, for the lower Leonard and the Wolfcamp, and these  
6     are the zones up here (indicating) that we left behind  
7     pipe and elected not to perforate. And this is our  
8     reservoir (indicating) that we're using at the present  
9     time. This is, again, in that Baish B36, which is  
10    really the closest well that we have logs for that would  
11    be closest to our new bottom-hole location.

12                    When you look at the calculated radii after  
13    30 years of injection, you'll see our surface location  
14    here (indicating). By the way, the Maljamar No. 1 well  
15    is located here (indicating), and the Maljamar No. 2 is  
16    going to be located about 450 feet to the northwest of  
17    it, right next to the flare at the -- at the plant.

18           Q.     The surface location?

19           A.     The surface location. That is correct.

20                    And then the bottom-hole location about  
21    2,500 feet away here in this location (indicating).  
22    Again, the Baish well is located in about this area  
23    right here (indicating), and the Cimarex well is down  
24    here in this area (indicating).

25                    The detailed locations, by the way, are

1 shown on this last graph. So the surface is about 400  
2 feet from the south line and 2,100 from the east line of  
3 Section 21, and the bottom hole is about 350 feet from  
4 the south and 650 feet from the west line, about 2,500  
5 feet of deviation.

6 The conceptual design is shown in Figures 4  
7 and 6 of the C-108, but basically we have a design that  
8 we have refined in our current acid gas injection  
9 program, which will have corrosion-resistant L80  
10 threaded tubing. It will have an automated subsurface  
11 safety valve. This is a dry injection well, so it will  
12 have a corrosion-inhibited diesel, with pressure  
13 monitored both at the surface and in the -- at the  
14 bottom hole. And it will have, of course, a  
15 corrosion-resistant packer and corrosion-resistant  
16 casing that that packer will be set into.

17 And, of course, there will be -- and I'll  
18 talk about the metering and monitoring, but we will be  
19 recording volumes and pressures and temperatures of the  
20 injected gas, as well as the pressure and temperature of  
21 the annulus and the pressure and temperature of the  
22 injection zone at the base of the well.

23 So, in general, there is -- you know, we've  
24 got the compression facility. We will have a line from  
25 there which will have an ESP valve downstream of the

1     compression facility. And by the way, we are going to  
2     use the same compression facility that goes to the  
3     existing wells, so we're just going to T off of that  
4     line and go to the new well, which will have a  
5     subsurface safety valve set at approximately 250 to 300  
6     feet, depending on how the tubing lays out. And then we  
7     will have an inert fluid above the packer. We'll have a  
8     retrievable acid gas-resistant packer set in acid  
9     gas-resistant casing, and we're targeting this Wolfcamp  
10    zone from about -- it's actually about 9,800 -- 9,850 to  
11    about 10,130. And it just depends on what our logs show  
12    when we drill the new well, but we anticipate it won't  
13    be far different from that.

14                     This is a schematic of the well  
15    (indicating). Again, it is an inclined well, so be  
16    aware that we have got a set of, basically, four strings  
17    of casing. We've got a conductor casing. We've got  
18    surface casing down to about 890 feet.

19                     Just before our meeting here, Mr. Goetze  
20    had brought to my attention that the district office had  
21    sent me an e-mail this morning -- which I had already  
22    left to Albuquerque and didn't get -- that they were  
23    wanting to have either -- they were requesting that this  
24    intermediate casing be raised up a little bit more to  
25    protect a certain -- to protect the Santa Rosa area that

1 they would like to protect. And what we will probably  
2 do is lower the surface casing rather than raise the  
3 intermediate. Because one of the things we encountered  
4 when we drilled the first well is that -- especially in  
5 this area right below about 5,000 feet and right around  
6 5,000 feet (indicating). We had some horrible problems  
7 drilling the first well there in terms of getting stuck.  
8 There are some really depleted reservoirs and zones in  
9 those areas, and we were having a lot of problems  
10 getting stuck in the hole in those areas. And so we've  
11 got a different approach we're going to use when we  
12 drill it to avoid that, but also we wanted to extend the  
13 immediate across those zones so when we get into the  
14 deviated portion of our well we wouldn't have those  
15 kinds of issues to deal with. So I'm sure we will be  
16 able to work that out with the district office and  
17 modify that accordingly.

18           There is only one water well within the  
19 area of review, and that is this Reliant processing well  
20 that's got a total depth of 158 feet, and it's going to  
21 be protected by the surface casing, which will be  
22 extending well below that depth.

23           The surface casing, like I said, is to be  
24 set at about 890 feet below the deepest fresh water and  
25 cemented to the surface. We're going to have

1 intermediate casing set over 5,700 feet, and it's well  
2 below the deepest fresh water and all of the shallow  
3 productive units, and cement back to the surface as  
4 well.

5                   And then our tubing design and subsurface  
6 safety valve will ensure the integrity of the inner  
7 portions of the well, and we will fill that, of course,  
8 with a corrosion-inhibited inert fluid. Of course,  
9 we've got a design in quite a few similar wells that has  
10 worked quite well in both southeast New Mexico and  
11 actually northwest New Mexico, Texas and in Canada.

12                   In terms of the geology, the summary is  
13 that there are no faults or structural pathways that  
14 have been identified in the area of review. The caprock  
15 we know has got very low porosity and is very  
16 impermeable, and it provides a very good barrier to the  
17 injection zone. As I mentioned, in the Well No. 1, we  
18 record not only the caprock but also the various units  
19 within the injection zones, and we are very happy with  
20 that outcome.

21                   And I will mention, also, that -- it's not  
22 in the slides, but as a part of the whole BLM process,  
23 since this is a federal well and they have primacy, they  
24 have required us, of course, to do -- when we originally  
25 drilled the first well to demonstrate that there were no



1 recoverable hydrocarbons in that portion of the  
2 Wolfcamp. And so we did a detailed analysis and  
3 provided that, and the BLM was satisfied there and  
4 allowed us, obviously, to proceed with our injection and  
5 completion.

6 Q. And that data is included in the C-108?

7 A. Yes, it is. And it's also included in much  
8 more detail -- the whole demonstration is included as a  
9 separate appendix to that end-of-well report for the  
10 No. 1 well.

11 So what are the key elements of our C-108?  
12 I think that the AGI project has substantial  
13 environmental benefits, greenhouse reduction and also  
14 the safety handling of the H<sub>2</sub>S. It reduces waste and  
15 air emissions by eliminating the need to flare.

16 Just to give you a little bit of history  
17 because you Commissioners did not hear this first case,  
18 this plant used to flare all of its acid gas. They had  
19 a grandfathered permit that allowed them to flare the  
20 entire amount of acid gas from that plant. But, of  
21 course, that kind of air-quality problem is no longer  
22 acceptable, and so that's what caused them to seek the  
23 acid gas injection for the first well in the first  
24 place.

25 The data provided by the drilling, testing

1 and operating of AGI No. 1 informed our design and  
2 drilling procedures for AGI No. 2, as did the results  
3 from the Pearsall well, which we worked very  
4 cooperatively with Cimarex and traded a lot of data and  
5 information. And they gave us some additional -- we  
6 made them aware of some of our nightmares in the shallow  
7 zones, just drilling problems, and they were able to  
8 avoid some of theirs in their wells through using some  
9 different drilling technologies, which we're going to  
10 employ in the No. 2 well as well.

11 And 3D seismic has allowed the accurate  
12 delineation of the reservoir and assuring that nearby  
13 disposal and producing wells will be fully protected.

14 We have provided the Commission with all of  
15 the information that's necessary to approve the AGI  
16 well. The contingency plan -- I guess I didn't change  
17 this one, but you can have the information. It was  
18 originally submitted in May 2011 and was ultimately  
19 approved in November of 2012. And, of course, an  
20 updated plan will be submitted prior to bringing on the  
21 AGI No. 2.

22 The adjacent operators and the OCD support  
23 the project. We've discussed a number of issues with  
24 the OCD, and the operators and the surface owners have  
25 expressed real support for the project.

1                   And we met by phone yesterday with the  
2     Division to discuss their conditions, and generally I'll  
3     mention just two items. One is that the Division has  
4     indicated to us that it's their policy not to accept  
5     adjacent wells no matter how close in terms of a  
6     deviation from the maximum allowable pressure without a  
7     step-rate test, and so the Division has recommended a  
8     pressure of approximately 3,028 pounds as a maximum  
9     pressure. We believe 3,200 is appropriate, and we  
10    believe -- we demonstrated that with a step-rate test,  
11    but we intend to do a step-rate test on this well as  
12    well. So what we would request from the Commission is  
13    that they allow us the 3,200, contingent on the  
14    Division's review of that step-rate test.

15           Q.    Mr. Gutierrez, the conditions that the OCD  
16    required were set forth in the pre-hearing statement?

17           A.    They were, that's correct. And we reviewed  
18    those yesterday.

19           Q.    Yes.

20           A.    The only other -- and then there are a number  
21    of conditions, and we really don't have a problem with  
22    any of them, just these two that I mentioned, the  
23    pressure that I just discussed.

24                   And then there is a request that we provide  
25    quarterly reports on the injection data, pressure, flow

1 rate and temperature, and, of course, we -- and daily  
2 monitoring of that. We do that monitoring continuously,  
3 not just daily. I mean, it's minute to minute, and will  
4 be for both the top and the bottom hole.

5           However, we would prefer to be able to do  
6 that reporting on a quarterly basis maybe for the first  
7 year, and then depending on what the Division sees --  
8 what we see is that this stuff just doesn't -- as long  
9 as you don't have a problem with the well, it's really  
10 quite boring, the reporting, in terms of the information  
11 that's provided. So we clearly do collect that  
12 information and analyze it, but we would like to be able  
13 to report it quarterly, and then based on the Division's  
14 review of that, maybe switch to a longer reporting  
15 period of maybe annually down the road.

16       Q.    Would you like to be able to request that  
17 administratively without coming back to hearing?

18       A.    That's right. That's what we're trying to do,  
19 and the same thing with the pressure, of course. We're  
20 trying to just set it up so that we don't have to take  
21 the Commission's time and our time and expense to come  
22 back to hearing for those modifications if the Division  
23 concurs.

24       Q.    And one other item -- and this was an  
25 objection, I believe, on their part, but condition

1 number four was the daily monitoring of pressure data,  
2 diesel replacement activities, atmospheric H2S and the  
3 safety measures in place. Would you comment on that?

4 A. Sure. As I mentioned, we don't just do daily  
5 monitoring. We're monitoring continuously. Actually,  
6 the SCADA System samples those sensors on a continual  
7 basis, every 20, 30 seconds, and records those  
8 measurements.

9 But with respect to the diesel replacement  
10 activities, I just wanted to clarify for the Commission,  
11 and I mentioned this to the Division, we don't routinely  
12 replace the diesel at all. I mean, that's a sealed  
13 system. And all that we do is every time we do an MIT,  
14 we do have to relieve the pressure from there to bring  
15 it down to zero, and the way we do that is by letting  
16 some diesel flow out into our pump truck so the pressure  
17 goes down to zero. Then we pump it back up to 500  
18 pounds, do the MIT, and then release it back down to  
19 about 200 pounds, which is where we try to keep the  
20 pressure for monitoring the back side.

21 So in that process, we typically maybe pull  
22 out a quarter to a half a barrel of diesel and then  
23 maybe put in another quarter to half a barrel of diesel  
24 when we're done with the testing. But other than that,  
25 we usually don't fool with that diesel at all.

1 Q. You don't mind monitoring or reporting that?

2 It's just --

3 A. Oh, no, absolutely not. We record it, and we  
4 will do that. But I just wanted to make sure that the  
5 Commission understood that that is not a routine  
6 practice, to replace that diesel. It's only if you were  
7 reworking the well and had to do something like that.

8 Q. And finally, could you summarize Frontier's  
9 request?

10 A. Fundamentally, we want to drill and test and  
11 complete a well as specified in our C-108 at this  
12 location. The surface that I mentioned earlier, 400  
13 feet from the south line, 2,100 feet from the east line,  
14 Section 21, and then bottom hole, 350 feet from the  
15 south line, 650 feet from the west line in the same  
16 section.

17 Now, I will emphasize that as far as the  
18 bottom-hole location is concerned, you know, this  
19 application is still under review by the BLM, and  
20 sometimes they have some quirks about where they want a  
21 location based on their own lease boundaries. And it  
22 could require some slight movement of that bottom-hole  
23 location, but if it does, it would certainly be well  
24 within the unit letter -- the same unit letter. So I  
25 just would ask that the Commission take note that these

1 are pending the final approval by the BLM. And they  
2 haven't indicated any need for that yet, but I have seen  
3 that happen before.

4 Q. And it will probably take another several  
5 months to get the APD from the BLM?

6 A. Yes, sir, unfortunately. We submitted it three  
7 months ago, and, you know, they have a -- they're  
8 supposed to give you a ten-day letter, they call it,  
9 which gives you -- tells you whether or not the  
10 application is administratively complete. And it's been  
11 90 days, and we still don't have our ten-day letter, so  
12 that's kind of where we are there.

13 As a matter of fact, when I met with  
14 Mr. Goetze earlier on another matter for another well, I  
15 was complaining about the woes at the BLM and saying  
16 that the State should be very proud, because, I mean,  
17 people complain that the State doesn't get to things  
18 quickly enough. Well, you guys do it at light speed  
19 compared to the BLM.

20 We request a rate of 2 million cubic feet a  
21 day, which is a couple hundred thousand more than what  
22 we had because of this anticipated additional CO2 and  
23 our maximum operating pressure, as I described it,  
24 3,200. And we would like to begin drilling the well and  
25 completing it as soon as possible after approval of the

1 BLM's APD.

2 Q. And, again, Exhibit 1, which is the C-108, was  
3 prepared by you or under your supervision?

4 A. Yes, it was.

5 Q. And it contains all of the necessary  
6 attachments required by the C-108 and as otherwise  
7 required by the Division?

8 A. Yes.

9 Q. And you stated earlier notice was given to the  
10 surface owner and to all offsetting operators or working  
11 interest owners as required by the Division?

12 A. Not only to the surface owner of the well but  
13 to all of the surface owners within the one-mile area.

14 Q. And is that reflected in Exhibit 2 of my  
15 Affidavit of Notice?

16 A. It is indeed.

17 MR. BRUCE: And, Madam Chair, just for your  
18 information, Exhibit 8 contains the individual letters  
19 and certified green cards that Mr. Gutierrez sent out  
20 from his office. That included the C-108 and also gave  
21 notice of the September 11th hearing. But after it was  
22 changed, I sent out notice to all of the same personnel  
23 so that they were given notice of the continued hearing  
24 date.

25 Q. (BY MR. BRUCE) And, Mr. Gutierrez, in your



1 opinion, is the granting of this application in the  
2 interest of conservation and the prevention of waste?

3 A. Absolutely.

4 MR. BRUCE: With that, Madam Chair, I'd  
5 move the admission of Exhibits 1 and 2, and pass the  
6 witness.

7 CHAIRPERSON BAILEY: Any objection?

8 MR. WADE: No objection.

9 CHAIRPERSON BAILEY: Exhibits 1 and 2 are  
10 admitted.

11 (Frontier Field Services, LLC Exhibit  
12 Numbers 1 and 2 were offered and admitted  
13 into evidence.)

14 CHAIRPERSON BAILEY: Do you have any cross?

15 MR. WADE: Just one question.

16 CROSS-EXAMINATION

17 BY MR. WADE:

18 Q. Regarding the possible bottom-hole change due  
19 to the BLM permitting process, how do you plan to  
20 proceed if there is a change? In other words, would you  
21 be notifying the OCD?

22 A. Oh, of course. I mean, we work closely with  
23 the Division.

24 And we did this on the first well.  
25 Every -- as a matter of fact, even though the BLM does

1 not -- even though we're not specifically required, when  
2 we take all of the steps on a federal well to -- you  
3 know, the cementing of the various strings of casing,  
4 all of this is noticed on the 3160-5 form to the BLM.  
5 Oftentimes it takes -- it takes a long time to get those  
6 to OCD. So on the first well -- and it would be our  
7 practice on this second well as well -- even though we  
8 weren't required to, we submitted C-103s to the State  
9 separately contemporaneously with what we submitted to  
10 the BLM and kept them in full appraisal of that.

11 But prior to the drilling of the well, if  
12 there is a need to change that bottom hole, we would  
13 obviously contact the Division and let them know what  
14 that change was and why the BLM wants it.

15 Q. And if there was a change, obviously, to the  
16 area of review, then we would go through further  
17 notification with the Commission?

18 A. Yes, although -- I mean, as I mentioned, we've  
19 had to do this on previous wells even not related to the  
20 BLM, where, for some logistical issue, we had to  
21 slightly move a location. And it has generally been the  
22 position of the Division that as long as that -- you  
23 know, if it's 50 or 60 feet or 100 feet and it's still  
24 within the same unit letter, we haven't had an issue.

25 MR. WADE: No further questions.

1 CHAIRPERSON BAILEY: Commissioner Warnell?

2 COMMISSIONER WARNELL: A few questions.

3 CROSS-EXAMINATION

4 BY COMMISSIONER WARNELL:

5 Q. Good morning, Mr. Gutierrez.

6 Permeability. What's the permeability on  
7 the No. 1 well? You said you did some cores on that?

8 A. Yes. It has variable permeability in these  
9 various units, but it runs from as high as maybe  
10 1 millidarcy to maybe as low as a quarter of a  
11 millidarcy.

12 Q. And that's derived from core analysis by Core  
13 Labs or --

14 A. Yeah. It was done by Weatherford. Yes, sir.

15 Q. So Weatherford did an analysis of this core?

16 A. Yes.

17 And what we did is -- as I mentioned, these  
18 data are included in the -- in the end-of-well report  
19 for No. 1. But what we do typically is we'll log the  
20 zone -- injection zone and caprock with a -- well, our  
21 full suite of logs, triple combo, and then we do  
22 formation microimaging. And then based on that log, we  
23 pick sidewall core locations, and that's what we did.  
24 We did a number of sidewall cores. We did not do a  
25 conventional core through the zone.

1 Q. And you were testifying that the sidewall cores  
2 came within 1 millidarcy to a quarter millidarcy?

3 A. Approximately that. That's the best of my  
4 recollection, yes, Commissioner.

5 Q. And if approved and if completed and drilled,  
6 the No. 2 well, I don't see any guarantee that there is  
7 going to be better permeability. What would happen to  
8 your client if this well came in at the same  
9 permeability as the No. 1 well?

10 A. Then at least they have a redundant well, and  
11 they can inject into the current well and can inject --  
12 it's just that it would be a lot nicer if they could  
13 inject at 16- or 1,700 pounds instead of 23- or 2,400  
14 pounds. That's fundamentally the difference.

15 Q. And we could possibly be injecting into both  
16 wells?

17 A. We could. That would -- you know, that's  
18 another option, too. Obviously if we split the volume  
19 between the two wells, then we might also be able to  
20 achieve a lower pressure and be able to put the gas away  
21 at a lower surface pressure.

22 Q. And it's my understanding that Section 21, 17  
23 South, 32 East, that's where the entire east -- that  
24 section is where the entire project will be taking  
25 place?

1 A. Yes, sir.

2 Q. That's federal? State?

3 A. It's all federal.

4 Q. All federal?

5 A. Yes, sir.

6 Q. Federal and fee or all federal?

7 A. All federal.

8 Q. All federal.

9 A. Well, I'm sorry. The actual footprint of the  
10 Maljamar Plant is owned by Frontier, but there are five  
11 acres upon which the acid gas injection Well No. 1 is  
12 located, and the compression facilities for the No. 1  
13 are on a BLM lease.

14 Q. I have no further questions at this time.

15 CHAIRPERSON BAILEY: Commissioner Balch?

16 COMMISSIONER BALCH: All kinds of  
17 questions.

18 CROSS-EXAMINATION

19 BY COMMISSIONER BALCH:

20 Q. Follow-up a little bit on Commissioner  
21 Warnell's questions. You're asking for a sum total of  
22 2 mmcfs per day?

23 A. Yes, sir.

24 Q. And for both wells, one or the other or a  
25 combination of the two.

1                   If there is a failure of one of those  
2 wells, essentially you're asking us to permit either of  
3 those wells to handle that capacity?

4           A.     That is correct.

5           Q.     Are both of those wells going to be capable --  
6 I'm mostly talking about the AGI No. 1, and I asked this  
7 question of Mr. Bryant. But is it going to be capable  
8 of taking 2?

9           A.     We believe that it will be. It'll probably be  
10 at a pressure that will be somewhere in the neighborhood  
11 of about 2,800 versus the 2,400 that we're injecting.

12          Q.     It's permitted at 3,200 right now?

13          A.     That is correct.

14          Q.     Maximum?

15          A.     Yes, sir.

16          Q.     The 1,500 wells that are feeding this plant  
17 with gas --

18          A.     Yes, sir.

19          Q.     -- is there a predominant formation of that  
20 gas?

21          A.     Yes. Most of it is relatively shallow, Seven  
22 Rivers, Queen, and there are some deeper. There are a  
23 few Morrow wells out there, but most of them are shallow  
24 wells.

25          Q.     So mostly the production is coming from the

1 northwest shelf?

2 A. Yes, sir.

3 Q. The plant itself is kind of on the margin of  
4 the northwest shelf and Delaware Basin?

5 A. That is correct.

6 Q. Is the primary caprock for the Wolfcamp going  
7 to be the Bone Spring at that location?

8 A. Yes. And actually the upper Wolfcamp itself is  
9 very impermeable and very low porosity.

10 Q. It's secondary -- Bone Spring carbonates?

11 A. That's correct.

12 Q. The Bone Spring, of course, has seen a lot of  
13 development in the last couple of years. Do you  
14 anticipate the Bone Spring developing in this area?

15 A. No. It really hasn't shown a great deal of  
16 potential in this area. Cimarex has looked at it quite  
17 a bit, as has COG, and they're just not too excited  
18 about it.

19 Q. Okay.

20 A. And by the way, we did cores in there, and it  
21 doesn't look too good.

22 Q. So another follow-up on that. On your slide  
23 29, you show the radius of the -- of the impact radius  
24 of where the CO2 can go.

25 A. Yes.

1 Q. The bottom-hole location is between the Queen B  
2 and another well. What's the TD for that Queen B and  
3 that other well?

4 A. The Queen B was drilled to the Devonian, so  
5 it's got a TD, I think, of about -- if I remember  
6 correctly, it's about 13,000 --

7 Q. TD?

8 A. Yes.

9 Q. And that well was demonstrated in the prior  
10 application to be sufficiently close?

11 A. Yes, absolutely.

12 Q. What about the other well north of the  
13 bottom-hole location of the AGI No. 2?

14 A. That one does not penetrate the injection zone.

15 Q. Do you know where it TDs?

16 A. I think it TDs at about 7,000 feet, somewhere  
17 in that range.

18 Q. That's up in the Permian section?

19 A. Yes.

20 Q. All right. Down to your seismic. I have a  
21 little bit of interest in that. How was the amplitude  
22 interval correlated to porosity?

23 A. Well, what -- and I'll have to admit that I'm  
24 not a geophysicist, and Lou Mazzullo, who I've worked  
25 with over 25 years did the geophysical interpretation.



1 But what we see is that we just see a slower wave  
2 through those zones, and it's reflected -- you know,  
3 obviously we add these colors to the section to help  
4 describe that. But that's my understanding, is that we  
5 basically see a slow-up.

6 Q. It's basically immediately above whatever  
7 horizon -- horizon pick, where you have that acoustic  
8 and contrasts --

9 A. Right.

10 Q. -- especially to give you positive amplitude to  
11 negative amplitude?

12 A. That's correct.

13 Q. Do you know what that pick is in the Wolfcamp?

14 A. It's a marker in the lower Wolfcamp. And I  
15 don't know that it has a particular name, but it's  
16 really just above the zone where we see the primary  
17 porosity development.

18 Q. Do you know what causes the contrast? Is it  
19 sandstone? Limestone?

20 A. No. I think it is a very -- from what we see,  
21 it is just kind of a more dolomitized limestone and  
22 then -- and a very -- a very, very tight, kind of, silty  
23 limestone above it.

24 Q. Okay. So that's probably where the porosity is  
25 coming in --

1 A. That's correct.

2 Q. -- as a change.

3 But sometimes you see an amplitude bright  
4 spot like that, and there are a couple of ways you can  
5 see that. You can see it with a amplitude versus offset  
6 study, where you're looking at a gas lens --

7 A. Right.

8 Q. -- on top of the reservoir.

9 A. Right.

10 Q. You also see it --

11 A. Fortunately that's not what we saw here  
12 (laughter).

13 Q. It will be in 30 years.

14 A. That's right.

15 Q. The other place where you can see it is the  
16 tuning effect. So as you -- if you have something  
17 lithologically that's distinct above that marker bed --

18 A. Correct.

19 Q. -- and it thins at the edges --

20 A. Right.

21 Q. -- you'll see an increase of amplitude as you  
22 go across that.

23 A. Right. And we do see that in those -- in those  
24 zones, I think --

25 Q. So my --

1 A. -- at the edges.

2 Q. I guess my concern would be this: You could  
3 just be interpreting the structure, not necessarily  
4 porosity?

5 A. Well, yes, except there is just no -- you mean  
6 almost like a microstructure, though, right?

7 Q. An internal structure of the --

8 A. Yeah. Yeah. It's possible. It's possible,  
9 although the porosity numbers that we got were not very  
10 different than what we anticipated. It was just that  
11 the permeability was lower than what we anticipated.

12 Q. Okay. I will think on this a little bit.

13 My only other question really is on the  
14 diesel replacement, the request by the OCD. The only  
15 time you replace diesel in normal operations is if there  
16 was a failure in the wellbore, and that would trigger  
17 some other response, I presume?

18 A. Absolutely.

19 Q. Such as --

20 A. Like a work-over of the well.

21 Q. Right.

22 Those are all my questions.

23 CROSS-EXAMINATION

24 BY CHAIRPERSON BAILEY:

25 Q. First I'd like to reassure you that geology is

1 always interesting (laughter).

2 On what basis are you forecasting a change  
3 in the ratio between the H<sub>2</sub>S and the CO<sub>2</sub>?

4 A. On the basis of what the -- you know, there are  
5 constantly wells that are being shut in and new wells  
6 that come online, and the new wells that come online are  
7 showing a higher CO<sub>2</sub> concentration than the previous  
8 wells, but not so much change in the H<sub>2</sub>S. And so what  
9 the plant is experiencing is a slow increase in the  
10 inlet CO<sub>2</sub> concentration, which gets translated into more  
11 CO<sub>2</sub> that winds up in the acid gas, but we're not seeing  
12 much change in the H<sub>2</sub>S.

13 Q. You're seeing the results, but I'm looking for  
14 the cause.

15 A. I don't know the cause. I really don't. I  
16 mean, the only -- the only cause that I can think of is  
17 that as some of these reservoirs become more depleted  
18 and some of the reservoirs that are being developed have  
19 a -- they just have more CO<sub>2</sub> dissolved in the  
20 hydrocarbons.

21 Q. If permeability appears to be an issue more  
22 than you anticipate, how would you expect to stimulate  
23 the wells?

24 A. What we did in the No. 1 well -- first of all,  
25 we don't anticipate any kind of fracking of the wells at

1 all. We haven't done it even in the No. 1 well. But  
2 what we have done is we did a better -- after we  
3 perforated the wells and tested them initially, we went  
4 back in and reperforated the wells with essentially like  
5 a propellant that allowed for a better fracturing, if  
6 you will, of the immediate near wellbore condition to  
7 get into the zones and get better -- a little more  
8 exposure in the immediate wellbore. And we might do  
9 that kind of thing.

10 We've also done some fairly reasonable acid  
11 jobs on the well before we started injecting, and we  
12 would anticipate the same kind of thing, although --  
13 like I mentioned in the Pearsall well, they really  
14 didn't have to do much of anything. And so we're hoping  
15 that, you know, if we can get some permeabilities that  
16 are, you know, maybe 30 or 40 percent better than what  
17 we see in our well, then we will be fine, and we  
18 anticipate that we will.

19 Q. Those are all the questions I have.

20 CHAIRPERSON BAILEY: Do you have any  
21 redirect?

22 MR. BRUCE: No, I don't.

23 CHAIRPERSON BAILEY: Then you may be  
24 excused.

25 Mr. Wade, would you like to present your

1 case?

2 MR. WADE: Thank you, Madam Chair. The OCD  
3 calls Mr. Phil Goetze.

4 CHAIRPERSON BAILEY: Why don't we take a  
5 ten-minute break?

6 (Break taken, 10:31 a.m. to 10:42 a.m.)

7 CHAIRPERSON BAILEY: Back on the record.  
8 You have called your first witness,  
9 Mr. Wade?

10 MR. WADE: That's correct. It's Phil  
11 Goetze.

12 CHAIRPERSON BAILEY: Would you please stand  
13 to be sworn?

14 PHILLIP GOETZE,  
15 after having been first duly sworn under oath, was  
16 questioned and testified as follows:

17 DIRECT EXAMINATION

18 BY MR. WADE

19 Q. Mr. Goetze, who are you employed by?

20 A. I'm currently employed by the Oil Conservation  
21 Division.

22 Q. What are your duties there?

23 A. I am assigned to the Engineering and Geologic  
24 Sciences Bureau, and I've been detailed responsibility  
25 to review of the UIC Program-related applications, the

1 C-108s.

2 Q. How long have you been at the NMOCD?

3 A. I'm now at one-and-a-half years.

4 Q. What is your past education and work  
5 experience?

6 A. I have over 30 years of industry-related,  
7 government, private industry, which includes hydrology  
8 petroleum and an environmental background, of which my  
9 qualifications with the United States Geologic Survey  
10 and the Bureau of Land Management as a petroleum  
11 geologist or a fluid minerals geologist provides my  
12 experience.

13 Q. And has this Commission admitted you as an  
14 expert in petroleum geology and underground injection  
15 previously?

16 A. They have so qualified me.

17 MR. WADE: And I would ask that the  
18 Commission again admit Mr. Goetze as an expert in  
19 petroleum geology and underground injection.

20 CHAIRPERSON BAILEY: He is accepted.

21 Q. (BY MR. WADE) I think you already stated this,  
22 but part of your duties at the OCD is reviewing  
23 applications made and brought under Rule 26?

24 A. That is correct.

25 Q. Did you review the application before the

1 Commission today of Frontier Field Services?

2 A. Correct. I did review it.

3 Q. And, in general, did you find the application  
4 approvable with proposed conditions to the application?

5 A. The application, in essence, duplicates the  
6 prior application made for the existing well with a few  
7 changes in design. It is approvable with the conditions  
8 that we have recommended.

9 Q. And are those recommended conditions within the  
10 OCD's pre-hearing statement?

11 A. That is correct.

12 Q. And after discussion with Frontier,  
13 Mr. Gutierrez, did Frontier propose modifications to the  
14 conditions found in the pre-hearing statement?

15 A. As previously testified, there were two items  
16 which we had discussion about. The first was the  
17 request for a step-rate test for the individual well  
18 following completion. The second item being the option  
19 to negotiate or review the requirements for the  
20 quarterly reporting. With that discussion, I would  
21 still say that our feelings at the OCD is that we will  
22 still request a step-rate test for determination above  
23 the approved administrative gradient that we have.

24 The second item, with regards to the  
25 quarterly monitoring, we would ask the Commission to



1 provide us with the option, through administrative  
2 means, to visit that at such time and make  
3 recommendations after a year and see if it is adequate  
4 or if it's redundant.

5 Q. As you described the modifications, those would  
6 be acceptable to the OCD as long as they included the  
7 other conditions highlighted within the OCD's  
8 pre-hearing statement?

9 A. Correct. The remaining items in the OCD  
10 hearing statement, those items have been previously  
11 recommended and accepted by the Commission.

12 Q. So based on your review of Frontier's C-108  
13 application and the modified conditions as the OCD would  
14 accept and the remaining conditions, does the OCD find  
15 that the application is protective of fresh water, human  
16 health and safety and correlative rights?

17 A. As provided in the application, yes.

18 Q. And would you recommend to the Commission that  
19 the application be approved with the conditions and  
20 modifications discussed today?

21 A. I would so recommend.

22 MR. WADE: I have no further questions.

23 MR. BRUCE: I have no questions.

24 CHAIRPERSON BAILEY: Commissioner Warnell?

25 COMMISSIONER WARNELL: No questions.

1 CHAIRPERSON BAILEY: Commissioner Balch?

2 CROSS-EXAMINATION

3 BY COMMISSIONER BALCH:

4 Q. I believe Mr. Gutierrez said the calculated  
5 maximum surface injection pressure would be 3,028 based  
6 on depth.

7 A. Well, I believe it was -- correct. That's  
8 based on the .2.

9 Q. And then contingent upon the step-rate test,  
10 they're asking for 3,200?

11 A. Correct.

12 Q. It seems -- I mean, I'm just asking for  
13 clarification for my own benefit. If you do a step-rate  
14 test -- that's what it should be, right?

15 A. That may be the result.

16 Q. Okay. So it wouldn't be advisable to default  
17 it to 3,028 with a step-rate test allowable of 3,200,  
18 the injection pressure is dependent upon the results of  
19 the step-rate test?

20 A. Correct. But we have the ability to do the .2  
21 administrative under our agreement, and that's the basis  
22 of that calculation.

23 Q. That's all I have.

24 CHAIRPERSON BAILEY: And I have no  
25 questions.

1                   MR. WADE: I realized -- if I may, Madam  
2 Chair, I do have one more question that I would like to  
3 bring up, if that's okay.

4                   CHAIRPERSON BAILEY: Okay.

5                   REDIRECT EXAMINATION

6 BY MR. WADE:

7           Q. This was something that was in Mr. Gutierrez'  
8 testimony and it was regarding -- I'm not sure if I'm  
9 going to be able to say it right, but it's regarding  
10 where the intermediate string would be placed.

11          A. There has been a discussion between the  
12 district office and the Santa Fe office. Our district  
13 geologist, Paul Kautz, has reviewed the setting depths  
14 for the intermediary casings. He feels there should be  
15 an extension of one to isolate. This has been brought  
16 to the attention of both the Applicant and made aware to  
17 me. It is something that's not unusual. And in the  
18 review process, a change of casing is not necessarily a  
19 major modification. The prior setting was a little more  
20 shallower for the AGI 1 -- or the No. 1 well, and our  
21 district geologist feels it should go down further to  
22 cover off that Santa Rosa.

23          Q. And from what I can understand of the  
24 testimony, Mr. Gutierrez came up with somewhat of an  
25 alternate to what Paul Kautz had recommended. In

1 working through these issues, is it possible that the  
2 OCD and the Applicant could come up with some agreement?

3 A. What we would recommend is that the Applicant  
4 address the casing issue, that it provide us with a  
5 final diagram and provide that the request made by  
6 district be addressed in that new design.

7 Q. Is this something that can be done  
8 administratively?

9 A. It can.

10 Q. I have no further questions.

11 RECROSS EXAMINATION

12 BY MR. BRUCE:

13 Q. Mr. Goetze, on that one thing that I think  
14 Mr. Gutierrez said, rather than raising the intermediate  
15 casing, he might prefer to lower the surface casing.  
16 Would that be acceptable?

17 A. That would be considered an alternative.  
18 Again, we would have to have the consent of all parties  
19 involved.

20 MR. BRUCE: That's all I have.

21 CHAIRPERSON BAILEY: Do we have anything  
22 further?

23 MR. WADE: I'm done this time.

24 MR. BRUCE: No.

25 CHAIRPERSON BAILEY: Do you want to make a

1 closing statement?

2 MR. BRUCE: No. I think it's pretty clear  
3 from Mr. Gutierrez' testimony what is being sought. I  
4 won't waste the time.

5 CHAIRPERSON BAILEY: All right.  
6 Mr. Goetze, you may be excused.

7 THE WITNESS: Thank you.

8 CHAIRPERSON BAILEY: Then, Commissioners,  
9 shall we go into closed session to discuss this case  
10 only?

11 Do I hear a motion --

12 COMMISSIONER BALCH: I'll make a motion.

13 CHAIRPERSON BAILEY: -- to go into closed  
14 session in accordance with New Mexico Section 10-15-1  
15 and the OCC Resolution on Open Meetings?

16 COMMISSIONER BALCH: With that said, I'll  
17 still make the motion.

18 CHAIRPERSON BAILEY: Do I hear a second?

19 COMMISSIONER WARNELL: I'll second that.

20 CHAIRPERSON BAILEY: All those in favor say  
21 aye.

22 (Ayes are unanimous.)

23 CHAIRPERSON BAILEY: We will go into  
24 executive session and return with a decision on this  
25 case.

1 (Closed Session, 10:52 a.m. to 11:17  
2 a.m.)

3 CHAIRPERSON BAILEY: Do I hear a motion for  
4 the Oil Conservation Commission to come back onto the  
5 record?

6 COMMISSIONER BALCH: I'll make that motion.

7 COMMISSIONER WARNELL: I second that  
8 motion.

9 CHAIRPERSON BAILEY: All those in favor?  
10 (Ayes are unanimous.)

11 CHAIRPERSON BAILEY: The only thing  
12 discussed during that time is Case Number 15193.  
13 However, during those discussions, we did find that  
14 there were some questions, and we need to reopen the  
15 case in order to settle some of these questions for our  
16 deliberations.

17 I'll ask our counsel, Mr. Brancard, to  
18 explain.

19 MR. BRANCARD: Do we have a motion to  
20 reopen the hearing?

21 COMMISSIONER BALCH: I'll make a motion to  
22 reopen the hearing.

23 COMMISSIONER WARNELL: Second that motion.

24 CHAIRPERSON BAILEY: All those in favor?  
25 (Ayes are unanimous.)

1                   MR. BRANCARD: Okay. The concerns come  
2 with the fact that we have an order for the first well,  
3 and now we want an order for the second well, but we  
4 want a combined injection limitation here. So are the  
5 parties okay with the Commission sort of modifying the  
6 first order to make sure that that happens?

7                   MR. GUTIERREZ: Absolutely. I think --  
8 well, I was just -- from a technical perspective, that's  
9 what we were -- maybe we should have been more explicit  
10 in that as a request, but that's what we would  
11 understand be the case, similar to what has been done  
12 with Lyman No. 1 and Lyman No. 2.

13                  COMMISSIONER BALCH: And you remember that  
14 we added conditions to the Lyman No. 1 as part of that  
15 order, right?

16                  MR. GUTIERREZ: That's correct. But I  
17 thought that the conditions that were added for the  
18 Lyman No. 1 were more specific to deal with the issues  
19 that we had had with Lyman No. 1 in terms of the  
20 mechanical integrity and those kinds of things, which  
21 are not issues that we've had here with this well.

22                  MR. BRANCARD: The Commission has also  
23 noted, because of the differences in the timing of the  
24 approvals, as the Commission has, over the last several  
25 years, added perhaps more detailed conditions to these

1 AGI approvals, that some of the conditions would be  
2 different for the two wells. Say, for instance, I  
3 believe the No. 1 well only requires an MIT every two  
4 years.

5 MR. GUTIERREZ: That's correct, although I  
6 had already expressed to my client that it was likely  
7 that we were going to have MITs annually for all AGI  
8 wells, and so that's, I think -- they're expecting that.  
9 That's not an issue, I don't think.

10 MR. BRANCARD: Okay.

11 MR. BRUCE: And, Madam Chair, is that part  
12 of -- will that be in the new injection regulation that  
13 you're going to be considering in a couple months? Will  
14 that be part of that regulation?

15 CHAIRPERSON BAILEY: I have not  
16 participated in committee discussions.

17 MR. BRUCE: Neither have I.

18 CHAIRPERSON BAILEY: So I can't guarantee  
19 anything of what will be coming up on that.

20 COMMISSIONER BALCH: At least on what's  
21 proposed.

22 CHAIRPERSON BAILEY: Right.

23 MR. BRUCE: Right. That's all I was  
24 questioning, whether it was proposed or not.

25 MR. GUTIERREZ: It is proposed.



1 MR. BRUCE: There. I got my answer.

2 CHAIRPERSON BAILEY: Okay. But there are  
3 conditions that have evolved over the past several years  
4 that ensure that we have consistent and fair  
5 requirements for all AGI wells that have come before us.  
6 So we are wanting to ensure that Frontier understands  
7 that these evolved requirements that we have  
8 consistently applied to AGI cases would also be  
9 applicable to the first well.

10 MR. BRUCE: And maybe Mr. Gutierrez can  
11 speak to this, but we did discuss this briefly, he and  
12 I, and he's been on the committee. And it sounds like  
13 if a new regulation is adopted, those will apply. It's  
14 trying to -- the new regulation is trying to harmonize  
15 the conditions that would be applied to AGI wells so  
16 that what has evolved would probably be what would be in  
17 the new regulations, if you understand what I'm saying.

18 COMMISSIONER BALCH: Without anticipating  
19 fully what that new regulation would -- we're talking  
20 about a lot of conditions.

21 MR. BRUCE: What Mr. Gutierrez has said is  
22 that they're trying to make standard conditions so that  
23 each AGI doesn't have different conditions.

24 CHAIRPERSON BAILEY: That's what we are  
25 working toward.

1 MR. BRUCE: Yeah.

2 CHAIRPERSON BAILEY: So we just want to  
3 have that understanding before we issue an order for  
4 this case which would also apply to the first well, and  
5 so the order will be an amendment of that first well's  
6 order.

7 MR. BRANCARD: Right.

8 MR. GUTIERREZ: The second well order would  
9 be an amendment of the first well order to allow for the  
10 second well in addition to the first? Is that how you  
11 envision it?

12 MR. BRANCARD: We were thinking that might  
13 be procedurally the best way to handle this. This would  
14 be R-13443B.

15 MR. GUTIERREZ: Right. I don't see that  
16 that would be a problem.

17 I would just ask -- the one issue that I  
18 would request, because we've not had any kind of  
19 integrity issues with the No. 1 well and the fact that  
20 the No. 1 well actually is already in compliance with  
21 the kind of corrosive-resistant requirements that are  
22 currently being used for AGI wells, the only difference  
23 being and that I would request not be applied to the  
24 No. 1 well is the need to go back and retrofit the  
25 No. 1 well so that there would be bottom-hole pressure

1 and temperature measurement in that well.

2 We will put it in the new well, but that  
3 would be a significant cost to the No. 1 well. And we  
4 would ask that we not be required to do that, because  
5 most of wells -- AGI wells in the state don't have that  
6 anyway. We will put it in the No. 2 well. And I guess  
7 theoretically it could be put into the No. 1 well if it  
8 was ever the worked over, and we wouldn't have an  
9 objection to that, but we wouldn't want to have to work  
10 it over just to do that.

11 COMMISSIONER BALCH: Would you object to  
12 language that says that, the first time it's worked  
13 over, the sensors were added?

14 MR. GUTIERREZ: No. I don't think my  
15 client would object to that.

16 CHAIRPERSON BAILEY: Do we need to go back  
17 into closed session?

18 MR. BRANCARD: It depends whether you're  
19 ready to --

20 MR. WADE: I do have one concern I'd like  
21 to discuss.

22 CHAIRPERSON BAILEY: Oh, yes. Mr. Wade.

23 MR. WADE: Regarding amending a past order,  
24 it sounds like it could be fairly significant. Is there  
25 going to be a due process? Because I don't know exactly

1    what the application and the notice for this particular  
2    case said, but I don't know -- I don't know that it  
3    talked about amending a previous order.

4                   MR. BRANCARD:  Well, I don't -- I don't  
5    think so.  I mean, I think adding more conditions -- and  
6    we're not -- I mean, this is not a significant change to  
7    it.

8                   MR. BRUCE:  I mean, it's making things more  
9    restrictive with less effect on offsets.  That's the way  
10   I view it?

11                  MR. BRANCARD:  And these wells being so  
12   close to each other, the notice would be fairly similar.

13                  MR. GUTIERREZ:  Absolutely.

14                  And further, I don't think -- when you  
15   really go back and look at the order of the first well,  
16   which I'm quite familiar with, I think you'll find there  
17   aren't really any substantive differences.  Other than  
18   the MIT requirement and the bottom-hole temperature and  
19   pressure measurement, everything else is pretty much the  
20   same as it is in what we requested in the second well.  
21   Like I said, I've already talked to my client about the  
22   MIT requirement, and, you know, I don't anticipate that  
23   that would be an issue.

24                  CHAIRPERSON BAILEY:  Okay.  So we are --

25                  COMMISSIONER WARNELL:  Any concerns about

1 the injection pressure?

2 CHAIRPERSON BAILEY: Ask.

3 Do you want to go back into closed session?

4 COMMISSIONER WARNELL: No.

5 CHAIRPERSON BAILEY: Do you want to go back  
6 into closed session?

7 COMMISSIONER BALCH: Yeah. I think that  
8 would be a good idea.

9 CHAIRPERSON BAILEY: Do I hear a motion to  
10 go back into closed session?

11 COMMISSIONER BALCH: I'll make a motion to  
12 go back into closed session.

13 COMMISSIONER WARNELL: I'll second that  
14 motion.

15 COMMISSIONER BALCH: Do you have a  
16 question?

17 MR. BRUCE: Before you go into it, I just  
18 spoke with my client, and Mr. Bryant says that for  
19 operational purposes, it would be a lot easier for the  
20 company to have the same --

21 MR. GUTIERREZ: Reporting requirements.

22 MR. BRUCE: -- the same requirements apply  
23 to both wells. So with that, I mean, go ahead and go  
24 into session, but there is really no issue about --  
25 other than the one Mr. Gutierrez said, about the

1 bottom-hole location. It will be perfectly fine with  
2 us.

3 CHAIRPERSON BAILEY: Then in accordance  
4 with Section 10-15-1 and the OCC Resolution on Open  
5 Meetings, we will go into closed session again.

6 (Closed Session, 11:27 a.m. to 11:38 a.m.)

7 CHAIRPERSON BAILEY: Do I hear a motion for  
8 the Commission to go come onto the record?

9 COMMISSIONER WARNELL: I'll make that  
10 motion.

11 COMMISSIONER BALCH: I'll second.

12 CHAIRPERSON BAILEY: All those in favor?

13 (Ayes are unanimous.)

14 CHAIRPERSON BAILEY: The only thing  
15 discussed is Case Number 15193. We have reached a  
16 decision, and we would like for our counsel to explain  
17 what the decision is and what we will need from  
18 Mr. Bruce.

19 MR. BRANCARD: Okay. Let me see if I can  
20 get this all here. The proposal is to approve a permit  
21 for the AGI Well No. 2 at Maljamar as specified in the  
22 C-108 and as further amended in this order. The  
23 amendments will include those conditions set forth by  
24 the Division in their statement of the case with two  
25 changes. One is on the second condition that requires a

1 step-rate test and sets an initial maximum surface  
2 pressure at 3,028 psi, the OCD will be allowed to adjust  
3 the maximum pressure based on the results of the  
4 step-rate test. Okay?

5 Three changes.

6 Number four, where it talks about daily  
7 monitoring of pressure data and references diesel  
8 replacement activities, obviously the monitor of diesel  
9 monitoring activities is on an as-needed basis.

10 CHAIRPERSON BAILEY: Continuous, not --

11 COMMISSIONER BALCH: It's a default, not  
12 a -- which would require the 20 second.

13 MR. BRANCARD: Number seven, which requires  
14 a quarterly reporting of the daily gathered information  
15 using a C-103 form. The Division is allowed to change  
16 the timing of this quarterly reporting based on the  
17 information submitted in the first year of reports. So  
18 it can be changed to an annual or semiannual basis if  
19 the Division feels that's warranted.

20 Plus an additional change discussed  
21 during -- on the record on casing to protect the Santa  
22 Rosa Formation, that the Applicant will make a proposal,  
23 and the Division will review what they propose in terms  
24 of the casing changes as discussed today:

25 So then we will also use this order to

1 amend the AGI No. 1 well approval, first to allow a  
2 combined maximum daily injection of 2 million. And then  
3 for the AGI No. 1 well, the mechanical integrity test  
4 requirement is to be annual. The AGI No. 1 well will  
5 have the same reporting requirements as the No. 2 well,  
6 except that any equipment required for the daily  
7 monitoring which is not now in place should be installed  
8 at the first work-over, and then that reporting will  
9 come -- requirements will commence from there.

10 Finally, any changes or conditions placed  
11 on the No. 2 well or the No. 1 well by the Bureau of  
12 Land Management in their approval will be submitted to  
13 the Division. The Division will then determine if those  
14 changes are significant enough to require a change to  
15 the Commission's orders.

16 Have I summarized?

17 CHAIRPERSON BAILEY: And the Division  
18 changes can be done administratively rather than going  
19 to hearing.

20 MR. BRANCARD: Right.

21 CHAIRPERSON BAILEY: I believe that's all.

22 MR. BRUCE: I think I got it all. Thank  
23 you.

24 CHAIRPERSON BAILEY: And how soon would you  
25 like to have that order submitted, Counsel?



1 MR. BRANCARD: Well, I think we have  
2 another meeting coming up rather soon; is that right?  
3 October?

4 CHAIRPERSON BAILEY: We have nothing  
5 docketed for October.

6 MR. BRANCARD: So November may be the next  
7 meeting.

8 MR. BRUCE: I tell you, I will probably --

9 CHAIRPERSON BAILEY: Then the next time we  
10 will be signing an order would probably be November  
11 19th, for the next --

12 MR. BRANCARD: So we have time.

13 CHAIRPERSON BAILEY: Probably.

14 MR. BRUCE: Fortunately I don't have any  
15 Division hearings next week, so that's why I'm liberal  
16 with my time.

17 CHAIRPERSON BAILEY: Just don't know what  
18 you'll do with yourself (laughter)?

19 COMMISSIONER BALCH: Bill some hours.

20 CHAIRPERSON BAILEY: Is there anything else  
21 before the Commission today then?

22 Hearing none, then this meeting is  
23 adjourned. Thank you very much.

24 Do I hear a motion to adjourn?

25 COMMISSIONER WARNELL: Yes.

1                   MR. BRANCARD: Oh, if I may? I don't know  
2 if I've told the Commission this, but the Pit Rule  
3 appeal has been submitted to a panel, which means that  
4 there are now three judges who are reviewing the briefs,  
5 and we could have a decision soon or within a few  
6 months. I'm guessing more the latter.

7                   CHAIRPERSON BAILEY: It was heard before a  
8 three-person panel, and it took about a year for that.

9                   Do I hear a motion to adjourn?

10                  COMMISSIONER WARNELL: I make that motion.

11                  CHAIRPERSON BAILEY: Second?

12                  COMMISSIONER BALCH: I will second the  
13 motion.

14                  CHAIRPERSON BAILEY: All those in favor?

15                  (Ayes are unanimous.)

16                  (Case Number 15193 concludes, 11:44 a.m.)

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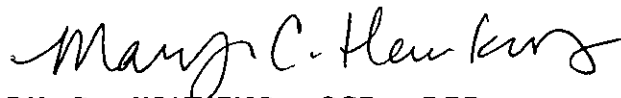
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