

3 IN THE MATTER OF THE HEARING CALLED  
4 BY THE OIL CONSERVATION DIVISION FOR  
5 THE PURPOSE OF CONSIDERING:

6 APPLICATION OF BTA OIL PRODUCERS, LLC  
7 FOR AUTHORIZATION TO INJECT PRODUCED  
8 WATER INTO THE DELAWARE (UPPER BRUSHY  
9 CANYON) FORMATION UNDERLYING SE/4 OF  
10 SECTION 2, TOWNSHIP 20 SOUTH, RANGE  
11 33 EAST, LEA COUNTY, NEW MEXICO.

CASE NO. 14973

ORIGINAL

12 REPORTER'S TRANSCRIPT OF PROCEEDINGS

13 EXAMINER HEARING

14 BEFORE: RICHARD EZEANYIM, CHIEF EXAMINER  
15 DAVID K. BROOKS, LEGAL EXAMINER  
16 PHILLIP GOETZE, TECHNICAL EXAMINER

17 March 21, 2013

18 Santa Fe, New Mexico

19 This matter came on for hearing before the  
20 New Mexico Oil Conservation Division, Richard Ezeanyim,  
21 Chief Examiner, David K. Brooks, Legal Examiner and  
22 Phillip Goetze, Technical Examiner, on Thursday, March  
23 21, 2013, at the New Mexico Energy, Minerals and Natural  
24 Resources Department, 1220 South St. Francis Drive,  
25 Porter Hall, Room 102, Santa Fe, New Mexico.

26 REPORTED BY: Mary C. Hankins, CCR, RPR  
27 New Mexico CCR #20  
28 Paul Baca Professional Court Reporters  
29 500 4th Street, Northwest, Suite 105  
30 Albuquerque, New Mexico 87102

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## 1 APPEARANCES

2 FOR APPLICANT BTA OIL PRODUCERS, LLC:

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## 8 INDEX

9	Case Number 14973 Called	PAGE 3
10	BTA Oil Producers, LLC Witnesses:	
11	Robin Hughes:	
12	Direct Examination by Mr. Rankin	3
13	Cross-Examination by Examiner Ezeanyim	8
14	Britton McQuien:	
15	Direct Examination by Mr. Rankin	10,17,44
16	Cross-Examination by Examiner Ezeanyim	16,22,37
17	Proceedings Concluded	45
18	Certificate of Court Reporter	46

18

19

## 20 EXHIBITS OFFERED AND ADMITTED

21	BTA Oil Producers Exhibit Numbers 1 through 3	8
22	BTA Oil Producers Exhibit Numbers 4 through 11	35
23	BTA Oil Producers Exhibit Number 12	45

23

24

25 (1:51 p.m.)

1 EXAMINER EZEANYIM: At this time, we'll go  
2 to the last case, and this is application of BTA Oil  
3 Producers, LLC for permission to inject produced water  
4 into the Delaware, Upper Brushy Canyon Formation,  
5 underlying the southeast quarter of Section 2, Township  
6 20 South, Range 33 East, Lea County, New Mexico.

7 Call for appearances, please.

8 MR. RANKIN: Thank you, Mr. Examiner. Adam  
9 Rankin, Holland & Hart, for BTA Oil Producers. I have  
10 two witnesses today.

11 EXAMINER EZEANYIM: Any other appearances?

12 Okay. Would the witnesses stand up and  
13 state your names, please?

14 MS. HUGHES: Robin Hughes.

15 MR. MCQUIEN: Britton McQuien.

16 (Ms. Hughes and Mr. McQuien sworn.)

17 MR. RANKIN: Thank you, Mr. Examiner. I  
18 would call my first witness, Ms. Robin Hughes.

19 ROBIN HUGHES,  
20 after having been previously sworn under oath, was  
21 questioned and testified as follows:

22 DIRECT EXAMINATION

23 BY MR. RANKIN:

24 Q. Good morning, Ms. Hughes. Please state your  
25 full name for the record.

1 A. Robin Hughes.

2 Q. And by whom are you employed?

3 A. BTA Oil Producers, LLC.

4 Q. And where do you reside?

5 A. Midland, Texas.

6 Q. And what is your current position with BTA Oil?

7 A. Petroleum landman.

8 Q. And have you previously testified before the  
9 Oil Conservation Division?

10 A. Yes.

11 Q. And have your credentials as a petroleum  
12 landman been made a matter of record?

13 A. Yes.

14 Q. And are you familiar with the application filed  
15 in this case?

16 A. Yes.

17 Q. Have you prepared any exhibits for today's  
18 hearing?

19 A. Yes.

20 MR. RANKIN: Mr. Examiner, I like to tender  
21 Ms. Hughes as an expert in petroleum land matters.

22 EXAMINER EZEANYIM: Ms. Hughes is so  
23 qualified.

24 MR. RANKIN: Thank you, Mr. Examiner.

25 Q. (BY MR. RANKIN) Ms. Hughes, can you please

1 state briefly for the Examiner what it is BTA is seeking  
2 today?

3 A. Yes. We seek an authorization to inject water  
4 for pressure maintenance. This will be produced  
5 water -- produced lease water. The well currently is an  
6 SWD well, and we're making application to convert it to  
7 an injection well, again, for pressure maintenance and  
8 to change the injection interval to a shallower interval  
9 in the Delaware Formation at a depth of 6,618 feet to  
10 6,648 feet; maximum surface pressure 1,220 psi; average  
11 of 500 barrels of water per day.

12 The well name -- the existing well,  
13 saltwater disposal well, is the BTA 8705 JV-P Gem Number  
14 3. It's located 660 feet from the south line, 1,980  
15 from the east line of Section 2, Township 20 South,  
16 Range 33 East, Lea County.

17 Again, the injection fluids will be water  
18 produced and generated from lease production, lease  
19 activities. And we're going to create it on a 640-acre  
20 project area in Section 2, which is our lease. It's a  
21 state lease covering all of Section 2.

22 Q. Thank you, Ms. Hughes.

23 And can you explain why BTA has brought  
24 this application to hearing?

25 A. My understanding is that the Division rules

1     require that application is to pressure maintenance --

2           Q.     And is BTA Exhibit Number 1, in the exhibit  
3     packet, the C-108 that was filed for this application?

4           A.     Yes.

5           Q.     And if you would please turn to what's been  
6     marked as tab number 1, which is a gray tab on Exhibit  
7     Number 1, and tell us what the map shows.

8           A.     Okay. That's just a plat from the county map  
9     showing an overview of a half-mile radius around the  
10    well itself and a two-mile radius, larger radius,  
11    showing all the wells and leases that are involved that  
12    touch it.

13          Q.     And the parties that you identify for purposes  
14    of notice, are all those lease operators within the  
15    half-mile area of review --

16          A.     Yes.

17          Q.     -- indicated by the smaller circles; is that  
18    correct?

19          A.     That's correct.

20          Q.     And who are those operators that were noticed?

21          A.     Three Rivers Operating Company, LLC; Nearburg  
22    Producing Company; Endurance Resources, LLC; and the  
23    surface owner, who is the State.

24          Q.     So that was noticed with the State Land Office;  
25    is that correct?

1           A.    That's correct.

2           Q.    So turning to what's been marked as Exhibit  
3   Number 2, the white tab, is that a copy of the Affidavit  
4   of Publication indicating that BTA filed a C-108  
5   application with the State?

6           A.    Yes.

7           Q.    And Exhibit Number 3, on the next page, is that  
8   a copy of the affidavit prepared by your attorney?

9           A.    Yes.

10          Q.    And on the following page of that exhibit is a  
11   copy of the notice letter that went out to all of the  
12   affected parties; is that correct?

13          A.    That's correct.

14          Q.    And on the subsequent page is a list of those  
15   parties --

16          A.    Yes.

17          Q.    -- and the certified mail receipts and green  
18   cards indicating they have received notice of today's  
19   hearing?

20          A.    Yes. Correct.

21          Q.    And were Exhibits 1 through 3 prepared by you  
22   or under your supervision?

23          A.    Yes.

24                   MR. RANKIN: Mr. Examiner, I would move to  
25   tender -- move to admit Exhibits through 3.

1 EXAMINER EZEANYIM: Exhibits 1 through 3  
2 will be admitted.

3 (BTA Oil Producers Exhibit Numbers 1  
4 through 3 were offered and admitted into  
5 evidence.)

6 MR. RANKIN: Thank you.

7 Mr. Examiner, I have nothing further of  
8 this witness.

9 EXAMINER EZEANYIM: Mr. Brooks?

10 EXAMINER BROOKS: No questions.

11 EXAMINER GOETZE: No questions.

12 EXAMINER EZEANYIM: This is AW794? That is  
13 the permit you have for this well, right?

14 MR. RANKIN: I am not sure of what permit  
15 number it's under.

16 EXAMINER EZEANYIM: Yeah, AW794, which is  
17 what I have here.

18 CROSS-EXAMINATION

19 BY EXAMINER EZEANYIM:

20 Q. The injection interval here is from 773 to  
21 8,200. You want to plug back to what, to 6,018, in the  
22 Brushy Canyon?

23 A. Yes, sir, 6,000- --

24 Q. You are in the Brushy Canyon?

25 A. Yes, sir.



1 Q. It will still be the Brushy Canyon, right?

2 A. Yes, sir.

3 Q. So that brings -- you want -- this is a  
4 disposal well approved. So you really want to do it in  
5 this, or do you want to dispose of the salt water into  
6 that formation? I mean, do you want to just -- I know  
7 you say you need water. You want to dispose [sic], you  
8 know, into the Upper Brushy Canyon. Is that for  
9 saltwater disposal [sic] or pressure maintenance?

10 A. Well, we're actually expecting  
11 pressure-maintenance results.

12 Q. So it's really -- do you know if you applied  
13 for this administratively -- I didn't look at  
14 anything -- and we told you to go to hearing, or you  
15 decided to go to hearing?

16 MR. RANKIN: Mr. Examiner, I believe  
17 originally we didn't understand -- they originally  
18 applied for administrative approval, and Mr. Jones  
19 informed them that they needed to go to hearing for  
20 pressure-maintenance purposes.

21 EXAMINER EZEANYIM: Okay. So when you  
22 applied, did you indicate you wanted to do pressure  
23 maintenance?

24 MR. RANKIN: I believe our next witness can  
25 probably give you a better background on the history of

1 the application, our petroleum engineer.

2 EXAMINER EZEANYIM: Is that the person who  
3 prepared the Form C-108?

4 MR. RANKIN: Correct.

5 EXAMINER EZEANYIM: Nothing further.

6 THE WITNESS: Thank you.

7 MR. RANKIN: Thank you, Mr. Examiner.

8 Call my next witness, Mr. Britton McQuien.

9 BRITTON MCQUIEN,  
10 after having been previously sworn under oath, was  
11 questioned and testified as follows:

12 DIRECT EXAMINATION

13 BY MR. RANKIN:

14 Q. Good afternoon, Mr. McQuien.

15 A. Good afternoon.

16 Q. Could you please state your full name, and  
17 spell your last name for the record?

18 A. Yes. My first name, Britton, B-R-I-T-T-O-N,  
19 and McQuien, M-C-Q-U-I-E-N.

20 Q. Thank you, Mr. McQuien.

21 By whom are you employed?

22 A. BTA Oil Producers, LLC.

23 Q. And where is it that you reside?

24 A. Midland, Texas.

25 Q. And what is your current position with BTA?

1 A. I'm the Permian exploration manager. .

2 Q. And have you previously had the opportunity to  
3 testify before the Division?

4 A. Yes, I have.

5 Q. And have you had your credentials as an expert  
6 in petroleum engineering accepted and made a matter of  
7 record?

8 A. Yes, I have.

9 Q. And are you familiar with the application that  
10 was filed in this case?

11 A. Yes.

12 Q. And have you also prepared some exhibits for  
13 presentation at this hearing?

14 A. Yes.

15 MR. RANKIN: Mr. Examiner, I would tender  
16 Mr. McQuien as an expert in petroleum engineering.

17 EXAMINER EZEANYIM: Thank you, Mr. McQuien.  
18 Are you a petroleum engineer?

19 THE WITNESS: Yes, sir, I am.

20 EXAMINER EZEANYIM: You say you are a  
21 manager to --

22 THE WITNESS: I am still an engineer, and I  
23 also manage.

24 EXAMINER EZEANYIM: So qualified.

25 MR. RANKIN: Thank you, Mr. Examiner.

1 Q. (BY MR. RANKIN) Mr. McQuien, you've prepared  
2 the C-108 that was filed with this application; is that  
3 correct?

4 A. That's correct.

5 Q. That was marked as Exhibit Number 1; is that  
6 right?

7 A. That's correct.

8 Q. Now, does the C-108 application contain all of  
9 the information that the Division requires?

10 A. Yes.

11 Q. And this is an expansion of an existing  
12 project, or is this a new project?

13 A. No. This would be a new project.

14 Q. Now, this well has already been drilled and has  
15 been operating as a saltwater disposal well; is that  
16 correct?

17 A. That's correct.

18 Q. Can you please provide the Examiners a brief  
19 history of this well and its operation?

20 A. Yes. This well was originally drilled in the  
21 early 1990s to test the Morrow Formation. The Morrow  
22 was very marginally productive. The well was quickly  
23 recompleted into the Brushy Canyon -- not the Brushy  
24 Canyon -- I'm sorry -- the Bone Spring Formation, at  
25 which point it had produced for six or seven years from

1 the Bone Spring and depleted from that reservoir.

2 The well was then plugged back to test the  
3 lower part of the Brushy Canyon Formation. That  
4 interval was not productive, and the well at that point  
5 was converted to SWD to handle produced water from the  
6 other wells on the lease.

7 Q. And it's been injecting for approximately 15  
8 years or so; is that correct?

9 A. That is correct.

10 Q. And it's been injecting into that same horizon  
11 the entire time it's been injecting; is that correct?

12 A. Yes, that is correct.

13 Q. Now, Mr. McQuien, is there also hydrocarbon  
14 production in the area?

15 A. Yes, there is.

16 Q. Would you please just review for the Examiners  
17 the nearby hydrocarbon production?

18 A. Yes. There are a number of shallow Yates  
19 fields that start about 32-, 3,300 feet. That was  
20 really what the original production in this area was.  
21 The Delaware Formation starts at about 5,500 feet, and  
22 it's produced all the way through the section, primarily  
23 from the upper portion of the Brushy Canyon.

24 The Bone Spring is productive in a lot of  
25 wells in this area. There's been some Wolfcamp

1 production, a little bit of Strawn. This has also been  
2 a very active Morrow-development area historically, and  
3 this is -- just touching on the Bone Spring, an area  
4 where there is lot of horizontal activity going on.

5 Q. So there is a fair amount of hydrocarbon  
6 production going on, as well any proposed injection  
7 interval, in this case; is that correct?

8 A. That's correct.

9 Q. So looking at what you've identified or marked  
10 as Exhibit Number 4, this is a bubble map showing  
11 production in the area of the offsetting wells around  
12 the proposed Gem Number 3 injection well; is that  
13 correct?

14 A. That is correct.

15 Q. Can you please review for the Examiners what  
16 this bubble map shows?

17 A. Yes. The Gem lease is Section 2. It is shown  
18 on this map in blue, the blue square. Of course, the  
19 oil wells are represented as green dots on this map.  
20 The gas wells --

21 EXAMINER EZEANYIM: Excuse me, Counselor.  
22 There is two double -- I mean, which one is which?

23 MR. RANKIN: Mr. Examiner, the white tab  
24 with the 4.

25 EXAMINER EZEANYIM: The white tabs are

1 what?

2 MR. RANKIN: Are the exhibit numbers.

3 EXAMINER EZEANYIM: The blue [sic] ones --

4 MR. RANKIN: The little green ones are just  
5 the tabs for identification purposes.

6 EXAMINER EZEANYIM: So what exhibit are you  
7 on now?

8 MR. RANKIN: On white tab 4.

9 EXAMINER EZEANYIM: Go ahead.

10 A. Okay. In review, the blue square is Section 2,  
11 which is BTA's lease. Obviously, the green dots  
12 represent producing oil wells. The red kind of  
13 star-looking shapes are gas wells in this area. The  
14 well that has an arrow pointing to the south -- or wells  
15 with arrows pointing to the southwest are injection  
16 wells. And then there's a color bubble map on the wells  
17 that have been completed in the upper portion of the  
18 Brushy Canyon Formation. These would be wells that  
19 would be considered the Teas Delaware Formation -- or  
20 field.

21 The scale on the bubbles are from zero to  
22 over 200,000. The purple are lower recovery wells. And  
23 as the colors get warmer, that represents more recovery  
24 up to the -- there is one well that is shown as pink,  
25 and that well has recovered in excess of 200,000 barrels

1 from this field.

2 CROSS-EXAMINATION

3 BY EXAMINER EZEANYIM:

4 Q. Please, let's stay on that Exhibit Number 4.

5 And that blue color, that section, that is Section 2?

6 A. Yes, sir.

7 Q. Is that the lease?

8 A. That is the lease.

9 Q. Where is this injection well located?

10 A. Yes. That injection well is located on the --  
11 on the south line of wells in that section. It would be  
12 the well farthest to the east, and it's represented --  
13 that blue line will be showing cross section later; that  
14 line will pick up. But that well is the well on the  
15 south line of wells in Section 2 as the farthest east  
16 well.

17 Q. I'm trying to find it while you're here. Which  
18 one is the injection well?

19 MR. RANKIN: Mr. Examiner, I believe if you  
20 follow that blue line that connects the wells on that  
21 cross section, it's the last well on the bottom, right  
22 corner of that blue line.

23 EXAMINER EZEANYIM: Oh, okay. That one on  
24 the southeast quarter.

25 THE WITNESS: Yes.



1 CONTINUED DIRECT EXAMINATION

2 BY MR. RANKIN:

3 Q. Mr. McQuien, turning to what's been marked as  
4 tab number two, which is the greenish tab on Exhibit  
5 Number 1 --

6 A. Yes.

7 Q. -- can you identify what this is? Is this the  
8 injection well data sheet for the well?

9 A. Yes, it is.

10 Q. Can you please review for the Examiners the  
11 data on this well?

12 A. Yes. We are showing the casing sizes that are  
13 in this wellbore and also the amount of cement used with  
14 the total depth shown; also the proposed perforation  
15 interval. And then on the second page of that, we are  
16 showing the type of completion we will have in this well  
17 and the tubing string that we plan to set in this well  
18 and where we plan to set the packer.

19 Q. Mr. McQuien, Exhibit Number 5 -- what is marked  
20 as Exhibit Number 5, which is the white tab, is this an  
21 updated slide -- sorry -- updated side [sic] number one  
22 for the injection well data sheet; is that correct?

23 A. That's correct.

24 Q. Can you explain what it is that's being updated  
25 on this page?

1           A.    Yes.  When we originally prepared this, we went  
2   through sequentially listing the casing sizes.  Well,  
3   this well, actually, has two intermediate strings of  
4   casing.  So we changed the injection well data set sheet  
5   to reflect that the -- that they are  
6   13-and-three-eighths; the intermediate casing well is  
7   9-and-five-eighths intermediate casing, and  
8   five-and-a-half inch production casing.

9           Q.    And the information you updated on this Exhibit  
10   Number 5 was already contained in the wellbore schematic  
11   that was completed in C-108; is that correct?

12          A.    That is correct.

13          Q.    Thank you, Mr. McQuien.

14                   Looking at tab number three, which is the  
15   wellbore schematic, can you please review for the  
16   Examiners what this Attachment B is?

17                   EXAMINER EZEANYIM:  Tab number what?

18                   MR. RANKIN:  Tab number 3, which is this  
19   greenish tab.

20                   EXAMINER EZEANYIM:  Okay.

21          A.    Yes.  This is a wellbore schematic showing the  
22   current completion and injection -- or disposal interval  
23   in this well.  Things to note, you know, there are  
24   several zones that have been completed in this well.  
25   They have all been plugged with a cast-iron bridge plug,

1 with cement plugs sealing those off.

2 On all the casing strings, cement was  
3 circulated to surface, so we feel we have good wellbore  
4 integrity.

5 Q. (BY MR. RANKIN) And the following page is the  
6 proposed recompletion wellbore schematic; is that  
7 correct?

8 A. That is correct.

9 Q. Can you review for the Examiners what that  
10 depicts?

11 A. Yes. The primary difference from the wellbore  
12 schematic on the prior page is, we will be setting the  
13 bridge plug and cement plug to about 7,680 feet -- 7,680  
14 feet in wellbore. That should isolate all the Lower  
15 Brushy Canyon perfs and perforate the Delaware section  
16 from 6,618 feet to 6,648 feet.

17 Q. Thank you, Mr. McQuien.

18 Does BTA propose any stimulation of the  
19 well?

20 A. Yes. Right now we are planning on cleaning the  
21 wellbore -- or the perforations with about 1,500 gallons  
22 of hydrochloric acid.

23 Q. Turning to the next tab on Exhibit Number 1,  
24 which is tab number four of the greenish tabs, can you  
25 review for the Examiners what this map shows?

1           A.    Yes.  This is a little more zoomed-in  
2   representation of the area of review.  This is the --

3                   EXAMINER EZEANYIM:  Tab number four?

4                   THE WITNESS:  Yes, green tab number four.

5                   EXAMINER EZEANYIM:  And these are the  
6   area-of-review wells?

7                   MR. RANKIN:  I think, Mr. Examiner, there  
8   is one page prior to that.  Prior to the table is the  
9   map.

10                  EXAMINER EZEANYIM:  Okay.

11           A.    So, yes, this is a half-a-mile radius around  
12   our Gem Number 3 wellbore.  This represents our area of  
13   review.

14           Q.    (BY MR. RANKIN) This captures all of the wells  
15   within that area of review, and those wells have been  
16   identified for analysis?

17           A.    That is correct.

18           Q.    The next page, Mr. McQuien, is a tabulation of  
19   all the wells identified within that area of review; is  
20   that correct?

21           A.    That is correct.

22           Q.    And all these wells, do they all penetrate the  
23   proposed injection interval?

24           A.    No.  One of them does not.

25           Q.    And that would be the State YS #1; is that

1 correct?

2 A. That is correct.

3 Q. And that is the only P&A'd well, or plugged and  
4 abandoned well, that is identified within the area of  
5 review; is that correct?

6 A. That is correct.

7 Q. Otherwise, all the rest of the wells are  
8 actively producing?

9 A. That is correct.

10 EXAMINER EZEANYIM: Which one is plugged  
11 and abandoned?

12 THE WITNESS: The last one on the list, the  
13 State YS #1.

14 EXAMINER EZEANYIM: The State YS is plugged  
15 and abandoned?

16 THE WITNESS: Yes, sir.

17 Q. (BY MR. RANKIN) And just to reiterate,  
18 Mr. McQuien, that plugged and abandoned well does not  
19 penetrate the injection wells?

20 A. That's correct.

21 Q. As indicated in the table there, it's only  
22 completed out to a depth of 3,562 feet; is that correct?

23 A. That is correct.

24

25 CROSS-EXAMINATION

1 BY EXAMINER EZEANYIM:

2 Q. The rest are producing oil?

3 A. Yes.

4 Q. Only one plugged and abandoned well? In a  
5 half-mile area of review, one well plugged and  
6 abandoned?

7 A. That's correct.

8 Q. Who owns the producing oil and gas?

9 A. Who owns them?

10 Q. Yeah. Do you know?

11 A. Yes. We actually own and operate five of the  
12 wellbores. The other one, the Smith Ranch Federal #2,  
13 we are showing Three Rivers as the operator there. And  
14 subsequent to our original, Concho had bought Three  
15 Rivers.

16 EXAMINER EZEANYIM: Okay.

17 CONTINUED DIRECT EXAMINATION

18 BY MR. RANKIN:

19 Q. Mr. McQuien, does the C-108 form also contain  
20 all the necessary geologic information that the Division  
21 requires?

22 A. Yes, it does.

23 Q. Mr. McQuien, having reviewed all these wells  
24 within that half-mile area of review, is it your opinion  
25 that water injected into Gem Number 3 within the

1 proposed injection interval will escape from the  
2 injection zone or cause any problems?

3 A. I do not believe that.

4 Q. Based on your review, have you identified any  
5 remedial work necessary to be done on the wells within  
6 the area of review?

7 A. No.

8 Q. Mr. McQuien, what injection volumes is BTA  
9 proposing to inject from the Gem Number 3?

10 A. We are proposing an average rate of  
11 approximately 500 barrels a day. That's roughly the  
12 current production from the existing producers out  
13 there, and then with a maximum rate of 1,500 barrels a  
14 day. That would, hopefully, if any additional wells are  
15 drilled or any completions are done that are higher  
16 water rates, they should -- we should have sufficient  
17 permitted level there.

18 Q. And, Mr. McQuien, the source of the injection  
19 water, as you indicated, is all dependent on the well  
20 lease activities?

21 A. That is correct.

22 Q. What is the formation of the produced water?

23 A. All the wells that are producing on this lease  
24 are either producing from the Delaware Formation or the  
25 Bone Spring Formation.

1 Q. Now, do you anticipate any compatibility issues  
2 between the produced injected water and the receiving  
3 formation water?

4 A. I do not.

5 Q. Turning to what's been marked as Exhibit Number  
6 6, is this a water analysis taken on the -- in the  
7 Gem #10 well?

8 A. Yes.

9 Q. Which formation is that analysis done on?

10 A. That formation -- or that well produces only  
11 from the Bone Spring Formation.

12 Q. So this water will be Bone Spring water; is  
13 that correct?

14 A. That is correct.

15 Q. And turning to what's been marked as Exhibit  
16 Number 7, this is a water analysis report from the Gem  
17 #7?

18 A. That is correct.

19 Q. And what formation does the Gem #7 produce  
20 from?

21 A. It produces only from the Delaware Formation.

22 Q. Based on your analysis of this water report,  
23 you don't anticipate any compatibility issues?

24 A. I do not.

25 Q. Will the injection system be open or closed?



1 A. It will be closed.

2 Q. And what is the injection pressure that BTA is  
3 proposing or requesting from the Division?

4 A. We request a maximum injection pressure of  
5 1,320 psi. That is based on a .2 psi per foot, which is  
6 the standard for the OCD. And our top perf, we estimate  
7 it -- we are going to -- the top perf will be at 6,618  
8 feet, so that's how we arrived at the 1,320.

9 Q. And, Mr. McQuien, based on your injection  
10 volumes, do you anticipate an average injection  
11 pressure?

12 A. Yes.

13 Q. And that would be approximately?

14 A. After fill-up, we expect it to average maybe  
15 around 700 psi.

16 Q. And if BTA requires a higher injection  
17 pressure, will it justify prior pressure tests --  
18 separate test?

19 A. Yes.

20 Q. And how will BTA monitor the well and the  
21 injection activities to ensure the integrity of the  
22 wellbore?

23 A. In this well, we will have a packer placed in  
24 there with tubing. The annular space will be filled  
25 with inert fluid that will not -- and it will be

1 inhibitive to corrosion. That way if we see any  
2 pressure on the annular space, we will know that there  
3 is an issue there.

4 Q. You will also have a pressure monitor gauge at  
5 the surface; is that correct?

6 A. That is correct.

7 Q. Now, Mr. McQuien, this is a pressure  
8 maintenance project request. Have you conducted an  
9 analysis to determine whether or not you believe there  
10 will be a positive response from these injection  
11 activities?

12 A. Yes.

13 Q. Will you please review for the Examiners what  
14 your analysis indicates?

15 A. Yes. On Exhibit Number 4 -- that was our Y tab  
16 that we were looking at earlier that was a bubble map --  
17 you can see, you know, a fairly large area with some  
18 fairly significant production in the Teas Delaware  
19 field. All of these wells have now -- fall into what  
20 would be considered a stripper raid [phonetic] of less  
21 than 20 barrels per day, and the bottom-hole pressure is  
22 very low in this formation at this point.

23 This Delaware Sand, about the mid-'90s, was  
24 discovered, and it has been producing continually since  
25 then. So there has been a fairly long production

1 history to this.

2 Q. If you look at Exhibit Number 8, Mr. McQuien,  
3 this is a cross-section overview that you've prepared;  
4 is that right?

5 A. Yes. This is a map showing wells prepared  
6 cross section. This map shows the location of the wells  
7 that will be shown on cross section, and with A to A  
8 prime is the order for the wells.

9 Q. Turn to Exhibit Number 9. This is the actual  
10 cross section; is that right?

11 A. That is correct.

12 Q. Will you please review for the Examiners what  
13 the cross section shows?

14 A. Yes. There is a top shown on here. It says  
15 "Willow Lake Price Sand." And that's an internal name  
16 for what we call this sand. What it shows, in the four  
17 wells, the sand is very continuous. It can be  
18 correlated easily across all of these wells.

19 The well, the Gem #10, which is the well  
20 farthest on the left side of the cross section, has not  
21 been completed yet. That's actually the well where we  
22 obtained our Bone Spring water sample.

23 The next well, the Gem #5, you can see some  
24 red or pink boxes on there. Those represent the  
25 perforations in this sand and where we're producing

1 from.

2           The well on the far right, that's our Gem  
3 #3 wellbore. That's the well we intend to convert to  
4 water injection. The sand is very correlative over  
5 there. One key to this cross section -- you can see  
6 that the Gem #3 is much lower than the other wells on  
7 the cross section. And by our analysis -- and what's  
8 not shown here but it is on the resistivity logs, you  
9 see low resistivity in that wellbore. We believe that  
10 that well is below the oil-water contact, so we don't  
11 think -- we don't think there is an opportunity to  
12 recomplete and recover any oil from this wellbore in the  
13 Delaware Formation. However, with the sand present in  
14 there, we think it will be a good well to put water into  
15 to repressurize the reservoir.

16       Q.   Next exhibit, Mr. McQuien, Exhibit Number 10,  
17 can you please review for the Examiners what this map  
18 shows?

19       A.   Yes. Once again, the blue is our lease  
20 position there. This is a structure map. The black  
21 number to the right of the well symbols represents the  
22 well -- that's the well number. The red number below  
23 the well symbol is the depth at which we encountered  
24 either this Upper Brushy Canyon sand --

25           EXAMINER EZEANYIM: Which exhibit are you

1 looking at now?

2 THE WITNESS: I'm sorry, what?

3 EXAMINER EZEANYIM: Which exhibit are you  
4 on now?

5 THE WITNESS: We're on Exhibit 10.

6 EXAMINER EZEANYIM: Okay.

7 A. And the red number is the structurally -- or  
8 the subsea depth of where we either encountered the sand  
9 or the correlative spot where the sand should have been  
10 if it wasn't present.

11 And then this is a structural contour map  
12 of the contour interval of 25 feet across -- over the  
13 lease position and a little halo around the lease  
14 position. One thing to note is, you see, generally, a  
15 west-to-east dip. You can see that the #3 wellbore is  
16 structurally much lower than all the other wells on the  
17 lease.

18 Q. (BY MR. RANKIN) And Exhibit Number 11,  
19 Mr. McQuien, is another contour map. Can you please  
20 review for the Examiners what this map shows?

21 A. Yes. This is a net pay isopach on this Upper  
22 Brushy Canyon Sand, that I mentioned, on the cross  
23 section, called Willow Lake Price Sand.

24 Once again, the well number is the black  
25 number next to the well symbol. The red number below

1 the well symbol is the net feet of sand found in well.  
2 That would be sand that has greater than 16-percent  
3 density porosity. And you can see, the sand covers a  
4 very large part of our lease position over here.

5 We expect the wells in the southeast -- or  
6 southwest quarter of the section, actually Wells Number  
7 5 and 7, those were two -- if we look back at the bubble  
8 map, those would be two of the better producers on our  
9 lease. Those are the two wells we would expect to see  
10 the best response from, with maybe some smaller response  
11 in the Number 4 wellbore immediately west of the  
12 injection well. But as you can see from this map, it  
13 does not have quite the sand development and it is not  
14 recovering quite as much oil. But as you move back more  
15 to the west, you get much more reservoir development,  
16 and we anticipate seeing a better response over there.

17 Q. Mr. McQuien, based on -- just in summary, based  
18 on your review and analysis of the geology in the  
19 reservoir in this area, it's your opinion that injection  
20 into the Gem #3 well would be beneficial to a number of  
21 your wells in the offsetting lease; is that correct?

22 A. Yes.

23 Q. And, Mr. McQuien, you've looked at the  
24 production history and the depletion history of the  
25 reservoir in this area?

1           A.    Yes.

2           Q.    And based on your analysis, do you have an  
3   anticipation [sic] for how long it would take before BTA  
4   starts to see positive response from its wells?

5           A.    Yes.  We have withdrawn about 790,000 reservoir  
6   barrels from this Delaware unit on our lease, and then  
7   from the rest of the wells in the Teas fields, we've had  
8   about 2.2 million barrels.  That would be reservoir  
9   barrels of oil and water withdrawn from the reservoir.  
10   So, you know, to replace our voidage and assuming a  
11   500-barrel-a-day injection rate, it would take about  
12   four years to reach fill-up and repressurize the  
13   reservoir.

14          Q.    Thank you, Mr. McQuien.  Appreciate that.

15                   Now, speaking about the fresh water in this  
16   area, have you identified any freshwater zones in the  
17   immediate vicinity?

18          A.    Yes.  The Ogallala is present in this area.

19          Q.    And at what depth do you find the Ogallala?

20          A.    It's 2- to 300 feet deep.

21          Q.    And in your opinion, will those injections in  
22   the Gem #3 impair or put at risk any of the fresh water  
23   that you've identified?

24          A.    No.

25          Q.    Are there any freshwater wells that you were

1     able to identify within one mile of the proposed  
2     injection?

3           A.     We found -- we reviewed the State Engineer's  
4     record, and there was a record of a well in Section 2.  
5     None of the surrounding sections had a record of a  
6     freshwater well. We haven't been able to locate the  
7     freshwater well, but there is a record of one there in  
8     Section 2.

9           Q.     So BTA didn't have a freshwater well sample; is  
10    that correct?

11          A.     That is correct. And that well is almost a  
12    mile away. The record shows that it's close to the  
13    north line. Our injection well is on the southern line  
14    of the -- close to the southern line of Section 2.

15          Q.     Moving on, have you included all the geologic  
16    information required in the C-108?

17          A.     Yes, sir.

18          Q.     And is that information contained at green tab  
19    number 5?

20          A.     Yes.

21          Q.     Can you please briefly review for the  
22    Examiners -- just give a short overview of the geology  
23    in the area and stratigraphy you encountered?

24          A.     Yes. You know, as you had just said, the  
25    freshwater zones are primarily the Ogallala. It occurs



1 shallowly.

2           The Rustler is present in here, which  
3 contains some very thick evaporite formations, couple  
4 thousand feet. That really separates the oil and gas  
5 reservoirs and provides a terrific seal for the oil and  
6 gas reservoirs to prevent any fluid migration up into  
7 freshwater zones. You know, we're sitting kind of in a  
8 transition zone, where you would have your northern  
9 shelf-type rocks and formations into the Delaware Basin,  
10 so you kind of get a mix of those.

11           You have the Yates Formation, which is more  
12 associated with the -- with the northern shelf, and it's  
13 a series of dolomites and sands and evaporites, which is  
14 the evaporites in the Yates Formation also run very good  
15 seals.

16           The Seven Rivers, which is the Capitan  
17 Reef, is present over this lease. It's a very thick  
18 dolomite reef, and then below the Seven Rivers, you get  
19 into the Delaware Mountain Group, which is primarily  
20 sand and shale sequences. This is one of the major oil  
21 and gas producing reservoirs. There are a few  
22 carbonates mixed in, and the primary production in this  
23 immediate area is from that sand. And in our injection  
24 well, it appears at 6,618 feet.

25           Below that, you have the Bone Spring

1 Formation, which 3,000 feet thick of sand, shales and  
2 carbonates, and a lot of production from that formation.  
3 It's also where a lot of horizontal activity is going  
4 on.

5 There is some limited Wolfcamp. Wolfcamp  
6 is primarily a shale in this area, but occasionally you  
7 get -- a little bit of carbonate porosity develops in  
8 it, and that can be productive. A Strawn is present in  
9 the area, which is primarily a carbonate reef. When it  
10 develops porosity, it can make good reservoir rock.

11 And then the Morrow Formation, which is  
12 primarily shales, with sand formations, and is one of  
13 the major gas-producing formations out here.

14 Q. Mr. McQuien, based on your review and analysis  
15 of the geology in the area, have you identified any  
16 evidence of open faults or hydrologic connections  
17 between the injection well and any sources of fresh  
18 water?

19 A. I have not.

20 Q. And in your opinion, will the granting of this  
21 application be in the best interest of the prevention of  
22 waste and the protection of correlative rights?

23 A. Yes.

24 Q. And in your opinion, will the proposed  
25 injection into the Gem #3 result in a positive

1 production response in some of BTA's offsetting lease  
2 wells?

3 A. Yes.

4 Q. And in your opinion, will that positive  
5 response reduce waste overall?

6 A. Yes.

7 Q. Mr. McQuien, were Exhibits 4 through 11  
8 prepared by you or under your direct supervision?

9 A. Yes.

10 MR. RANKIN: Mr. Examiner, I would move to  
11 admit into evidence Exhibits 4 through 11.

12 EXAMINER EZEANYIM: Exhibits 4 through 11  
13 will be admitted.

14 (BTA Oil Producers Exhibit Numbers 4  
15 through 11 were offered and admitted into  
16 evidence.)

17 MR. RANKIN: Mr. Examiner, no further  
18 questions of the witness, and I pass the witness.

19 EXAMINER EZEANYIM: Thank you very much.

20 Mr. Brooks?

21 EXAMINER BROOKS: No questions.

22 EXAMINER EZEANYIM: Mr. Goetze?

23

24

25

CROSS-EXAMINATION

1 BY EXAMINER GOETZE:

2 Q. I have a couple of questions. On your Form  
3 C-108, I have note here that the locations are in a  
4 potash area. Do we know if they're under the  
5 secretarial order, the R-111, or where does it stand?

6 A. Would you repeat your question?

7 Q. Are we under the R-111, the secretarial order?

8 A. I'm not familiar with that order.

9 EXAMINER EZEANYIM: I think the question  
10 he's asking is whether this is close to the potash area.

11 A. It is close to the potash area. This area has  
12 been determined as -- I think it was potash not present.  
13 That's why we were able to drill on it, but it is --  
14 actually, if you look back on Exhibit Number 10, this  
15 will help orient you. In Section 3, you'll notice a lot  
16 of directional wells drilled on there. Those wells were  
17 drilled directionally because of potash. So that kind  
18 of shows you where the potash issues are in this area.

19 Q. (BY EXAMINER GOETZE) Another question: On your  
20 green tab four, you have a well that's commingling for  
21 both the Delaware and Bone Spring?

22 A. Yes. Some of these wells, when they got to  
23 very marginal rates -- they were recompleted from the  
24 Bone Spring to the Delaware, and then once the Delaware  
25 got to a marginal rate, it was combined.

1 Q. So is there any -- is it open hole or --

2 A. No. It's two sets of perforations.

3 Q. But there is no communication between what's  
4 being produced from the Delaware and what's being  
5 produced from the Bone Spring?

6 A. Are you thinking -- like is one possibly  
7 leaking from the other?

8 Q. Yeah.

9 A. No, I don't think so. All the wells are on a  
10 rod pump, and they're being pumped down below -- or  
11 below the perforation level for the Bone Spring.

12 Q. No other questions. Thank you.

13 EXAMINER EZEANYIM: Thank you.

14 CROSS-EXAMINATION

15 BY EXAMINER EZEANYIM:

16 Q. Let's start with the well construction. The  
17 well construction strings circulated to the -- right?

18 A. Yes.

19 Q. And then the fresh water is at 300 feet?

20 A. I'm sorry, what?

21 Q. You know, the fresh water is about 300 feet in  
22 depth?

23 A. Yes, sir.

24 Q. And you are -- the surface casing -- do you  
25 know where the surface casing --

1 A. Let's see. That was --

2 MR. RANKIN: Tab three.

3 A. -- tab three.

4 Q. (BY EXAMINER EZEANYIM) On the green?

5 A. Yes, sir.

6 Q. 300 feet?

7 A. Yes, sir. So we should have three strings  
8 outside of our production casing protecting fresh water.

9 Q. And as you testified, there are no faults?

10 A. No, there are no faults.

11 Q. I thought I'd get that out of the way.

12 What is the current bottom-hole pressure?

13 A. The current bottom-hole pressure -- we have not  
14 measured it. All the wells are on rod pump, and they  
15 are actually -- they are not pumping at 100 percent, so  
16 the wells are --

17 Q. Even when the pump -- 50 barrels a day?

18 A. The best well is making about 20 barrels a day.  
19 The rest of them are ten to two or three.

20 Q. I can't think of what else.

21 Are you going to inject this well at that  
22 rate, of 1,320 psi? You are going to inject -- okay.  
23 You are asking for much more than 300 psi, but the  
24 average is 700.

25 A. Yes. And really I believe it's going to --

1 given the voidage initially, it's going to take water on  
2 vacuum until we hit fill-up, and then it will start to  
3 pressure up a little bit.

4 Q. When you are talking about fill-up, you say  
5 it's going to take four years? Did you do a calculation  
6 based on 500-barrels-a-day injection, average of 500?

7 A. Yes.

8 Q. And it will take about four years to do that?

9 A. Yes, sir.

10 Q. I'm going to ask you about when you can begin  
11 to see a response. When do you expect to get a  
12 response?

13 A. We had a similar project we did in Eddy County,  
14 and really we didn't see a whole a lot of response until  
15 we reached the fill-up point; but it was only fill-up  
16 for the couple of wells producing on the lease. We  
17 didn't have to fill up, you know, all the offsetting  
18 wells that we didn't operate. It was, you know, very  
19 close to the time that we replaced the voidage from our  
20 wells.

21 Q. After that fill-up, are you --

22 A. I think we'll see a response very quickly,  
23 within --

24 Q. What do you expect?

25 A. Within a month. Actually, we saw it -- yeah.

1     Within a month of achieving fill-up. In the Eddy County  
2     project, we saw a response on the other project. So I  
3     would say, in this case, within a month of achieving  
4     fill-up, we will see a response.

5           Q.    Okay. After that fill-up, are you going to see  
6     a response? It means that the well is near the bottom.  
7     Let's say you didn't see a response. What happens at  
8     that point? See, it could -- it could go either way.

9           A.    Yeah. And the other part, you know, this is --  
10    the well will provide a service, in that we will no  
11    longer have to truck water to an SWD for our other  
12    producing wells on the lease.

13          Q.    That's why -- you know, it's kind of a dual  
14    function. That's okay. That's fine. That's fine.

15          A.    Well, I think -- you know, we've got to do  
16    something with the water. I think -- you know, this is  
17    a producing zone that would be a good place to store  
18    water, and I think it could provide us some valuable  
19    upside, too, for the injection.

20          Q.    But you see where I'm coming from?

21          A.    Yes, I think I do.

22          Q.    What is your name, again?

23          A.    Britton McQuien.

24          Q.    McQuien. Okay.

25                   Now, are you going to have a problem if I



1 put a condition that you should wait and see which way  
2 it goes? If you have a response, that's good. If you  
3 don't have a response, we can, you know, attach it and  
4 then do something else, right? We can have you  
5 monitoring it, but then that would -- you know, reach  
6 fill-up -- production or reach fill-up and my production  
7 went from 20 to 5.

8 A. Generally, your question is: If we end up  
9 killing all of our producing wells --

10 Q. Yes.

11 A. -- you know, should there be some mechanism to  
12 shut the project off?

13 Q. Oh, yeah. Of course, we are going to have look  
14 at that, but we need some information. We, as the  
15 bureau, the OCD, need some information of what the  
16 project is doing.

17 A. Right. So what would you propose?

18 Q. I, you know, propose that you do maybe -- I  
19 don't know -- when you get the fill-up, you start  
20 reporting to us what the project is doing. Maybe in  
21 terms of production and -- I mean, I require it in most  
22 cases. I don't think it's going to be a big problem.

23 A. No, I don't think that would be an issue.

24 Q. But that's not the C-115 [sic]. I'm not  
25 talking about that. I'm talking about what I need to

1 see to make sure there are no production being -- no  
2 wasting productions.

3 A. Basically, you need a lease curve of the these  
4 Delaware wells, you know, the oil production over -- in  
5 three or five years, you need to be able look at that  
6 curve and make sure that that --

7 Q. Yeah.

8 A. Okay.

9 Q. I mean, it's for everybody's benefit, right?

10 A. Right.

11 Q. Okay. The plugged and abandoned well, I've  
12 been looking for it on the Form C-108. Is it included  
13 there? The plugged and abandoned well, it should be  
14 included in there, of course. I don't see it.

15 MR. RANKIN: Mr. Examiner, it does not  
16 penetrate the injection interval.

17 EXAMINER EZEANYIM: Okay.

18 MR. RANKIN: So the wellbore schematic was  
19 not included, because it does not penetrate. However,  
20 if you are interested, we have --

21 EXAMINER EZEANYIM: No.

22 MR. RANKIN: We did look to see if we could  
23 find --

24 EXAMINER EZEANYIM: No, no. I don't need  
25 it. Okay. Let me look at that now.

1 MR. RANKIN: We do have the Sunday [sic]  
2 notices on that well, if you're interested in seeing  
3 them.

4 EXAMINER EZEANYIM: Do you have the  
5 diagram?

6 MR. RANKIN: There is no diagram that we  
7 could find in the public records, but we do have the  
8 information on the well.

9 EXAMINER EZEANYIM: On this plugged and  
10 abandoned well?

11 MR. RANKIN: Yes.

12 EXAMINER EZEANYIM: Yeah, I can see that.

13 MR. RANKIN: Would you like me to mark it  
14 as Exhibit Number 12?

15 Q. (BY EXAMINER EZEANYIM) Okay. Now, the lease  
16 [sic] water is going to be injecting here, right?

17 A. Yes.

18 Q. And this water come from what formation, what  
19 zones?

20 A. Bone Spring and Delaware.

21 Q. And as you testified in the hearing today,  
22 there are no issues -- compatibility issues?

23 A. No.

24 Q. You'll be injecting into the Upper Brushy  
25 Canyon, right?

1           A.    I'm sorry?

2           Q.    You'll be injecting this water into the Upper  
3   Brushy Canyon?

4           A.    Yeah.  We've been injecting into the Lower  
5   Brushy for a long time.

6                   MR. RANKIN:  Mr. Examiner, I just  
7   distributed what I've marked as Exhibit Number 12.

8                   CONTINUED DIRECT EXAMINATION

9   BY MR. RANKIN:

10          Q.    Mr. McQuien, please indicate for the Examiners  
11   what Exhibit Number 12 is.

12          A.    Yes.  Exhibit Number 12 is a sundry [sic]  
13   notice, plugged and abandoned report of the State YS #1,  
14   and it shows where the cement -- where the seven-inch  
15   casing was cut during the plugging and where the cement  
16   plugs were set during the plugging operation.

17          Q.    And this is all the information that you were  
18   able to find on that well; is that correct?

19          A.    That's correct.

20                   And then, also, the second page is the  
21   original C-105.  This was the completion report, and it  
22   shows that the well was a dry hole.  And there is an  
23   inclination report attached; also the original drilling  
24   plat and a drilling narrative, the last page.

25                   MR. RANKIN:  Mr. Examiner, move to admit

1 Exhibit Number 12 into the record as well.

2 EXAMINER EZEANYIM: Exhibit Number 12 is  
3 admitted.

4 (BTA Oil Producers Exhibit Number 12 was  
5 offered and admitted into evidence.)

6 EXAMINER EZEANYIM: Anything further?

7 MR. RANKIN: Nothing further, Mr. Examiner.

8 EXAMINER EZEANYIM: At this point, Case  
9 Number 14973 will be taken under advisement.

10 This concludes the hearings today. Thank  
11 you very much.

12 (Case Number 14973 concludes, 2:47 p.m.)

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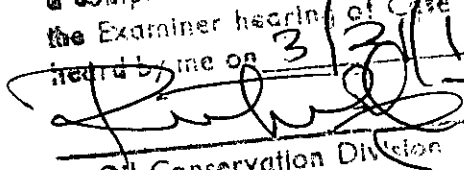
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I do hereby certify that the foregoing is  
a complete record of the proceedings in  
the Examiner hearing of Case No. 14973  
heard by me on 3/31/13  
 Examiner  
Oil Conservation Division

1 STATE OF NEW MEXICO  
2 COUNTY OF BERNALILLO

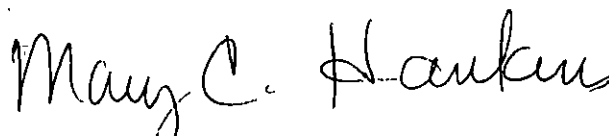
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CERTIFICATE OF COURT REPORTER

I, MARY C. HANKINS, New Mexico Certified  
Court Reporter No. 20, and Registered Professional  
Reporter, do hereby certify that I reported the  
foregoing proceedings in stenographic shorthand and that  
the foregoing pages are a true and correct transcript of  
those proceedings that were reduced to printed form by  
me to the best of my ability.

I FURTHER CERTIFY that the Reporter's  
Record of the proceedings truly and accurately reflects  
the exhibits, if any, offered by the respective parties.

I FURTHER CERTIFY that I am neither  
employed by nor related to any of the parties or  
attorneys in this case and that I have no interest in  
the final disposition of this case.



MARY C. HANKINS, CCR, RPR  
Paul Baca Court Reporters  
New Mexico CCR No. 20  
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