



1 APPEARANCES

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8 INDEX

	PAGE
Case Number 16229 Called	3
Manzano, LLC's Case-in-Chief:	
Witnesses:	
Nick McClelland:	
Direct Examination by Mr. Larson	4
Cross-Examination by Examiner Goetze	10
John Worrall:	
Direct Examination by Mr. Larson	10
Cross-Examination by Examiner Goetze	17
Proceedings Conclude	18
Certificate of Court Reporter	19

21 EXHIBITS OFFERED AND ADMITTED

Manzano, LLC Exhibit Numbers 1 through 3	10
Manzano, LLC Exhibit Numbers 4 through 8	16

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1 (9:43 a.m.)

2 EXAMINER GOETZE: Let's go back on the  
3 record.

4 Case Number 16229, application of Manzano,  
5 LLC for approval of the West Crossroads San Andres State  
6 Exploratory Unit, Lea County, New Mexico.

7 Call for appearances.

8 MS. LARSON: Good morning, Mr. Examiner.  
9 Gary Larson and Jared Hembree of Hinkle Shanor for the  
10 Applicant, Manzano, LLC.

11 EXAMINER GOETZE: Any other appearances?

12 MS. LARSON: And we have two witnesses.

13 EXAMINER GOETZE: Would the witnesses  
14 please stand, identify yourself for the court reporter  
15 and be sworn in, please?

16 MR. WORRALL: John Worrall, geologist with  
17 Manzano.

18 MR. McCLELLAND: Nick McClelland, land  
19 manager, Manzano.

20 (Mr. Worrall and Mr. McClelland sworn.)

21 MR. LARSON: I'd call Nick McClelland.

22 NICK McCLELLAND,  
23 after having been first duly sworn under oath, was  
24 questioned and testified as follows:

25

1 DIRECT EXAMINATION

2 BY MR. LARSON:

3 Q. Good morning, Mr. McClelland.

4 A. Good morning.

5 Q. Would you state your full name for the record?

6 A. Nick McClelland.

7 Q. And where do you reside?

8 A. Roswell, New Mexico.

9 Q. By whom are you employed and in what capacity?

10 A. Manzano, LLC as a land manager.

11 Q. And what is the focus of your responsibilities  
12 as a land manager for Manzano?

13 A. I manage Manzano's land assets in southeastern  
14 New Mexico.

15 Q. And are you familiar with the land matters that  
16 pertain to Manzano's application?

17 A. Yes.

18 Q. Have you previously testified at a Division  
19 hearing?

20 A. No.

21 Q. And given that, would you summarize for the  
22 Examiner your educational background and professional  
23 experience in the oil and gas business?

24 A. Sure. I have -- I graduated in 2010 with a  
25 bachelor's degree from New Mexico State with -- in

1 business, and I've worked continuously in the land  
2 profession since then. I've worked for Yates Petroleum  
3 Corporation, EOG Resources and, most recently, Manzano,  
4 LLC. And I also have my MBA from the University of  
5 Oklahoma.

6 MS. LARSON: Mr. Examiner, I tender  
7 Mr. McClelland as an expert in petroleum land matters.

8 EXAMINER GOETZE: He is so qualified.

9 Q. (BY MR. LARSON) Would you identify the document  
10 marked as Exhibit 1?

11 A. Yes. This is the unexecuted unit agreement for  
12 the West Crossroads San Andres Unit.

13 Q. And is Exhibit 1 a true and correct copy of the  
14 unit agreement?

15 A. Yes.

16 Q. And is the unit comprised entirely of state  
17 lands?

18 A. Yes.

19 Q. What percentage of the working interest in the  
20 unit area does Manzano own?

21 A. 100 percent.

22 Q. And does the State Land Office hold 100 percent  
23 of the royalty interest?

24 A. Yes.

25 Q. I direct your attention to Exhibit B to the

1 unit agreement, which is page 9 of Exhibit 1 and ask you  
2 to identify it.

3 A. Yes. This is the schedule of ownership within  
4 the West Crossroads San Andres Unit.

5 Q. And does Exhibit B identify all of the lessees  
6 of record --

7 A. Yes.

8 Q. -- and all of the overriding royalty interest  
9 owners?

10 A. Yes.

11 Q. Does it indicate that Manzano holds 100 percent  
12 of the working interest in the unit area?

13 A. Yes.

14 Q. Is Manzano prepared to execute the unit  
15 agreement?

16 A. Yes.

17 Q. I would next direct your attention to Exhibit A  
18 to the unit agreement, which appears on page 8 of  
19 Exhibit 1. I'd ask you for identify it.

20 A. Yes. This is a map of the unit area.

21 Q. Did you prepare this map?

22 A. Yes.

23 Q. And does the dotted line indicate the  
24 boundaries of the proposed unit?

25 A. Yes.

1           Q.    And does it also identify each of the state  
2 leases that are included in it?

3           A.    Yes.

4           Q.    And in total, how many state leases are in the  
5 unit?

6           A.    13.

7           Q.    And finally I'll direct your attention to  
8 Exhibit C of the unit agreement, which appears on pages  
9 11 and 12 of Exhibit 1. And what is Exhibit C to the  
10 unit agreement?

11          A.    It is the schedule of tract participation  
12 within the West Crossroads San Andres Unit.

13          Q.    And what is the total acreage of the proposed  
14 unit?

15          A.    Total acreage is 4,153.72 acres.

16          Q.    And what formation is Manzano seeking to  
17 unitize?

18          A.    San Andres.

19                   EXAMINER BROOKS: I'm sorry. I didn't hear  
20 you.

21                   THE WITNESS: San Andres.

22                   EXAMINER BROOKS: Thank you.

23          Q.    (BY MR. LARSON) Can you tell us what the upper  
24 and lower depths of the unitized interval would be?

25          A.    The upper unitized interval would be located at

1 4,075 feet, and the lower interval will be located at  
2 5,503 feet.

3 Q. And have Manzano's representatives met with the  
4 State Land Office regarding the proposed exploratory  
5 unit?

6 A. Yes, on two different occasions.

7 Q. Would you next identify the document marked as  
8 Exhibit Number 2?

9 A. This is the June 6th letter from Commissioner  
10 Aubrey Dunn.

11 Q. Is Exhibit 2 a true and correct copy of  
12 Commissioner Dunn's letter?

13 A. Yes.

14 Q. Does this letter indicate Commissioner Dunn's  
15 preliminary approval of the proposed exploratory unit?

16 A. Yes.

17 Q. Did Manzano notify the State Land Office of  
18 today's hearing?

19 A. Yes.

20 Q. And did Manzano also notify the owners of the  
21 overriding royalty interests identified in Exhibit B to  
22 the unit agreement?

23 A. Yes.

24 Q. Would you identify the document marked as  
25 Exhibit 3?



1           A.    Yes.  This is -- these are the notice letters  
2   for the State Land Office and the overriding royalty  
3   interest owners and the associated green cards.

4           Q.    And were these notice letters prepared and sent  
5   under your direction and supervision?

6           A.    Yes.

7           Q.    And does Exhibit 3 include true and correct  
8   copies of the notice letter?

9           A.    Yes.

10          Q.    And were green cards received for all of the  
11   notices?

12          A.    Yes.

13          Q.    In your opinion, does the proposed exploratory  
14   unit cover an area that can be reasonably developed  
15   under a unit plan?

16          A.    Yes.

17          Q.    And in your opinion, will the granting of  
18   Manzano's application serve the interest of  
19   conservation, protection of correlative rights and  
20   prevention of waste?

21          A.    Yes.

22                   MS. LARSON:  Mr. Examiner, I'd move the  
23   admission of Exhibits 1 through 3.

24                   EXAMINER GOETZE:  Exhibits 1 through 3 are  
25   so entered.

1 (Manzano, LLC Exhibit Numbers 1 through 3  
2 are offered and admitted into evidence.)

3 MS. LARSON: And I will pass the witness.

4 EXAMINER BROOKS: No questions.

5 CROSS-EXAMINATION

6 BY EXAMINER GOETZE:

7 Q. Just for a matter of interest, does Section  
8 31 -- is that a U.S. lease?

9 A. That is a U.S. lease.

10 Q. And who is there? Who operates that?

11 A. It's operated by Reliance Operating.

12 Q. Other than that, I have no questions. Thank  
13 you very much.

14 A. Thank you.

15 JOHN WORRALL,

16 after having been previously sworn under oath, was  
17 questioned and testified as follows:

18 DIRECT EXAMINATION

19 BY MR. LARSON:

20 Q. Good morning, Mr. Worrall.

21 A. Good morning.

22 Q. Would you state your full name for the record?

23 A. John Worrall.

24 Q. And where do you reside?

25 A. Roswell, New Mexico.

1           Q.    And what is your position at Manzano?

2           A.    I'm a co-owner and do geology and business.

3           Q.    And are you familiar with the geologic aspects  
4 of Manzano's application?

5           A.    Yes.

6           Q.    Have you previously testified at a Division  
7 hearing?

8           A.    Yes, I have.

9           Q.    And at those hearings, were you qualified as an  
10 expert petroleum geologist?

11          A.    Yes.

12                   MS. LARSON:  Mr. Examiner, I tender  
13 Mr. Worrall as an expert in petroleum geology.

14                   EXAMINER GOETZE:  He is so qualified.

15          Q.    (BY MR. LARSON) Is the San Andres Formation in  
16 the proposed area part of the Northwest Shelf?

17          A.    Yes, it is.

18          Q.    What is Manzano's primary objection in the  
19 unitized unit?

20          A.    The San Andres P1 dolomite.

21          Q.    Could you generally describe the geology?

22          A.    The P1 dolomite is about 120 feet thick,  
23 porosity developed in a dolomite interval, crystalline  
24 porosity -- anhydrite, underlain by tighter limestone.

25          Q.    Would you identify the document marked as

1     **Exhibit 4?**

2           A.     That's a structure map of the P1 dolomite.

3           **Q.     And did you prepare this structure map?**

4           A.     Yes, I did.

5           **Q.     And what offset wells are identified on your**  
6 **structure map?**

7           A.     A key well is there in Section 31, southeast  
8 quarter. It's marked with a purple circle. It'll be a  
9 type log -- I'll show you later -- on the cross section.  
10 In general, structure dips from 750 feet on the north  
11 end down to about 900 feet on the south side. Those are  
12 subsea depths. And another key well is the well in the  
13 red circle. That's the Apache Pacifico State #1H. I'll  
14 be showing that later on on the cross section.

15          **Q.     And is the Apache well the only horizontal well**  
16 **drilled in the vicinity of the proposed unit?**

17          A.     Yes.

18          **Q.     And what does the structure map tell you about**  
19 **the prospects for San Andres horizontal wells in the**  
20 **unit area?**

21          A.     The unit area is all updip structurally to the  
22 Apache well, so it should have as good or better of an  
23 oil cut.

24          **Q.     Have you analyzed the issue of faulting in the**  
25 **unitized area?**

1           A.    There is no faulting.  This is all draped over  
2 deeper structure unfaulted.

3           **Q.    So is it fair to conclude there are no geologic**  
4 **impediments?**

5           A.    Yes.

6           **Q.    Would you next identify Exhibit 5?**

7           A.    Exhibit 5 is an isopach of the porosity within  
8 the 120-foot P1 dolomite.

9           **Q.    And did you prepare this map as well?**

10          A.    I did.

11          **Q.    And what is your isopach map intended to**  
12 **depict?**

13          A.    It shows the amount of porosity within that  
14 interval that's greater than 5 percent.  We have  
15 porosity up to 100 feet out of 120 feet in the dark  
16 green area in the center of the unit, and then from  
17 there, it thins to about 70 feet on the south end of the  
18 unit.  Note that before that, it goes to 20 feet.  So we  
19 are, in this unit, targeting the thickest part of the P1  
20 dolomite.

21          **Q.    Would you next identify the exhibit marked as**  
22 **Number 6?**

23          A.    Number 6 is a stratigraphic cross section  
24 depicting the P1 dolomite.

25          **Q.    And did you prepare this exhibit?**

1           A.    I did.

2           **Q.    And how does the -- does the cross section**  
3           **identify the unitized interval?**

4           A.    Yes, it does.  The yellow is the P1 dolomite,  
5           and the blue is the underlying limestone.

6           **Q.    And what wells are included in the cross**  
7           **section?**

8           A.    The well on the left is the blue-circled well,  
9           our type well, showing that the P1 dolomite has 101 feet  
10          of porosity, 13 PhiH.  The Pacifico well on the  
11          southeast end of the unit, it only had 49 feet of  
12          porosity, 5.56 PhiH.  And it was drilled to the south  
13          where there was only 20 feet of porosity.  So our unit  
14          should target about three times the thickness of that  
15          LLC [sic] that the Apache will encounter.

16          **Q.    Does Manzano have an initial development plan**  
17          **for the unit?**

18          A.    We do.

19          **Q.    Would you identify the document marked as**  
20          **Exhibit 7?**

21          A.    Exhibit 7 is the development plan for the unit.

22          **Q.    And did you also prepare this exhibit?**

23          A.    I did.

24          **Q.    Would you generally describe Manzano's**  
25          **development plan?**

1           A.     Our first well will be drilled -- it's marked  
2     with the red language there, the first well, drilling  
3     from Section 5, northwest-northwest with the first take  
4     point in the southwest-southwest of Section 32, and it  
5     will be drilled as a one-mile lateral along the west  
6     half west-west half of Section 32.

7           **Q.     And is there a second well in the works?**

8           A.     Our second well would be a one-and-a-half-mile  
9     lateral drilled in Section 1 and 36. And then we've  
10    also shown on here that in general we're thinking about  
11    this as a six-well-per-section spacing unit.

12          **Q.     Would you identify the final exhibit, which is**  
13    **marked as Exhibit 8?**

14          A.     I don't have that with me. Oh, yes. Exhibit 8  
15    is a C-102 for our initial well.

16          **Q.     And would it be accurate to characterize it as**  
17    **a preliminary C-102 for the test well?**

18          A.     Yes, it is. It hasn't been officially  
19    surveyed, but we've got it prepared --

20          **Q.     And the well would be drilled south to north;**  
21    **is that correct?**

22          A.     South to north, yes.

23          **Q.     And is south to north the preferred orientation**  
24    **throughout the unitized interval?**

25          A.     Yes, it is. It's drilling from downdip to

1     updip.

2           Q.     And in your opinion, is the San Andres  
3     prospective for the recovery of oil and gas throughout  
4     the unit area?

5           A.     Yes, I do [sic].

6           Q.     In your opinion, is the pay relatively  
7     equivalent throughout the unit there.

8           A.     Yes, 100 feet thick.

9           Q.     In your opinion, will the unit development  
10    result in the efficient recovery of oil and gas?

11          A.     Yes, sir.

12          Q.     And in your opinion, will the granting of  
13    Manzano's application serve the interest of  
14    conservation, the protection of correlative rights and  
15    the prevention of waste?

16          A.     Yes.

17                   MS. LARSON:   Mr. Examiner, I'd move the  
18    admission of Exhibits 4 through 8.

19                   EXAMINER GOETZE:   Exhibits 4 through 8 are  
20    so entered.

21                           (Manzano, LLC Exhibit Numbers 4 through 8  
22                           are offered and admitted into evidence.)

23                   MS. LARSON:   And I pass the witness.

24                   EXAMINER GOETZE:   Mr. Brooks?

25                   EXAMINER BROOKS:   No questions.



1 CROSS-EXAMINATION

2 BY EXAMINER GOETZE:

3 Q. Good morning.

4 A. Good morning.

5 Q. So first off, this has been classified by the  
6 district as wildcat status?

7 A. Yes.

8 Q. Okay. So you don't really have a pool name per  
9 se. You're going to have one of Paul Kautz' special  
10 labels.

11 You have proposed mile, mile and a half.  
12 Is a two-mile something that was considered in  
13 developing this, or is that outside --

14 A. We've considered it. We think the economics  
15 and the rate of return are better with one-miles in this  
16 formation.

17 Q. And let's see. And the concept of how these  
18 are going to be completed, roughly, as far as  
19 fracturing?

20 A. We've run about 500 pounds per lateral foot,  
21 about 25 stages in a one-mile lateral.

22 Q. So the water, you're going to be able to find  
23 somewhere to get rid of it?

24 A. Yes. We've got an arrangement with -- let's  
25 see -- it's Merchant [sic], a disposal well about two

1 miles away.

2 Q. Okay. Good. Other than that, I have no  
3 questions. Thank you very much. Thank you for all the  
4 geology you've done, too. Appreciate it.

5 Did you want to say something?

6 THE WITNESS: It was Pliny the Elder that  
7 died.

8 (Laughter.)

9 MS. LARSON: With Mr. Worrall's  
10 clarification of Roman history, I have nothing to say.  
11 I have nothing further and ask that this case be taken  
12 under advisement.

13 EXAMINER GOETZE: Case Number 16229 will be  
14 taken under advisement.

15 EXAMINER BROOKS: Then it must have been  
16 Pliny the Younger that wrote the account.

17 Thank you.

18 (Case Number 16229 concludes, 10:00 a.m.)

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1 STATE OF NEW MEXICO  
2 COUNTY OF BERNALILLO

3

4 CERTIFICATE OF COURT REPORTER

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

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

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

20 DATED THIS 26th day of July, 2018.

21

22

23 MARY C. HANKINS, CCR, RPR  
24 Certified Court Reporter  
New Mexico CCR No. 20  
Date of CCR Expiration: 12/31/2018  
Paul Baca Professional Court Reporters

25