

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

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

APPLICATION OF CHISHOLM ENERGY  
OPERATING, LLC FOR AN UNORTHODOX  
WELL LOCATION, A NONSTANDARD SPACING  
AND PRORATION UNIT AND COMPULSORY  
POOLING, LEA COUNTY, NEW MEXICO. CASE NO. 16262

REPORTER'S TRANSCRIPT OF PROCEEDINGS

EXAMINER HEARING

July 12, 2018

Santa Fe, New Mexico

BEFORE: MICHAEL McMILLAN, CHIEF EXAMINER  
LEONARD LOWE, TECHNICAL EXAMINER  
DAVID K. BROOKS, LEGAL EXAMINER

This matter came on for hearing before the New Mexico Oil Conservation Division, Michael McMillan, Chief Examiner, Leonard Lowe, Technical Examiner, and David K. Brooks, Legal Examiner, on Thursday, July 12, 2018, 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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## 1 APPEARANCES

2 FOR APPLICANT CHISHOLM ENERGY OPERATING, LLC:

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## 7 INDEX

8 PAGE

9	Case Number 16262 Called	3
10	Chisholm Energy Operating, LLC's Case-in-Chief:	
11	Witnesses:	
12	David Armour:	
13	Direct Examination by Ms. Broggi	3
14	Cross-Examination by Examiner McMillan	11
15	Cross-Examination by Examiner Brooks	13
16	Joshua Kuhn:	
17	Direct Examination by Ms. Broggi	15
18	Cross-Examination by Examiner McMillan	20
19	Cross-Examination by Examiner Lowe	21
20	Recross Examination by Examiner McMillan	22
21	Proceedings Conclude	23
22	Certificate of Court Reporter	24

## 22 EXHIBITS OFFERED AND ADMITTED

23	Chisholm Energy Operating, LLC Exhibit Numbers 1 through 5	10
24	Chisholm Energy Operating, LLC Exhibit Numbers 6 and 7	20

1 (8:49 a.m.)

2 EXAMINER McMILLAN: Okay. So let's go to  
3 the beginning of the docket, and the first case we're  
4 going to hear is Case Number 16262, application of  
5 Chisholm Energy Operating, LLC for an unorthodox well  
6 location, a nonstandard spacing and proration unit and  
7 compulsory pooling, Lea County, New Mexico.

8 Call for appearances.

9 MS. BROGGI: Mr. Examiner, Julia Broggi,  
10 from Holland & Hart, on behalf of the Applicant,  
11 Chisholm Energy Operating, LLC. And we have two  
12 witnesses.

13 EXAMINER McMILLAN: Any other appearances?  
14 Please proceed.

15 The witnesses will please stand up and be  
16 sworn in at this time.

17 (Mr. Armour and Mr. Kuhn sworn.)

18 DAVIS ARMOUR,  
19 after having been first duly sworn under oath, was  
20 questioned and testified as follows:

21 DIRECT EXAMINATION

22 BY MS. BROGGI:

23 Q. Good morning. Will you please state your name,  
24 where you're employed and in what capacity?

25 A. My name is Davis Armour. I'm a senior landman

1 for Chisholm Energy Operating.

2 Q. And have you previously testified before this  
3 Division as an expert in petroleum matters?

4 A. Yes, I have.

5 Q. And have your credentials as a petroleum  
6 landman been accepted as a matter of record?

7 A. Yes, they have.

8 EXAMINER BROOKS: Excuse me. Did you bring  
9 copies up to the bench?

10 MS. BROGGI: Yes. They're right here.

11 EXAMINER BROOKS: I've got them buried in  
12 other exhibits. Thank you.

13 Q. (BY MS. BROGGI) Are you familiar with the  
14 application filed by Chisholm in this case?

15 A. Yes.

16 Q. And are you familiar with the status of the  
17 lands in the subject area?

18 A. Yes, I am.

19 MS. BROGGI: Mr. Examiner, at this time we  
20 would like to tender Mr. Armour as an expert witness in  
21 petroleum land matters.

22 EXAMINER McMILLAN: So qualified.

23 Q. (BY MS. BROGGI) Mr. Armour, will you please  
24 tell the examiners what Chisholm is seeking with this  
25 application?

1           A.     Sure.  We are seeking to form a pooled unit of  
2     320 acres consisting of the east half-west half of  
3     Sections 1 and 12 of Township 19 South, 33 East in Lea  
4     County, New Mexico.

5           Q.     Are you seeking to dedicate the spacing unit to  
6     the proposed Buffalo 12-1 Fed Com 2BS Number 1H well?

7           A.     That's correct.

8           Q.     Underlying the Bone Spring Formation?

9           A.     That's correct.

10          Q.     And to approve an unorthodox well location?

11          A.     Yes.

12          Q.     And designate Chisholm as the operator?

13          A.     Yes.

14          Q.     Has Chisholm filed a C-102 well plat for the  
15     proposed well?

16          A.     Yes, we have.

17          Q.     And if you'll turn to Chisholm Exhibit 1, is  
18     that the C-102?

19          A.     Yes, that is the C-102.

20          Q.     And does the C-102 show the pool code has been  
21     assigned?

22          A.     Yes, it has been.  It's the Buffalo; Bone  
23     Spring.  It's Pool Code 8145.

24          Q.     Will the completed interval for this well  
25     comply with the setbacks under the statewide

1 regulations?

2 A. Yes.

3 Q. Are you certain about that?

4 A. The location itself is nonstandard, but we're  
5 the offsetting operator here.

6 Can you clarify? I'm sorry.

7 Q. That's all right.

8 I believe in our discussions yesterday, the  
9 western and northwestern -- that the interval is closer  
10 to the western and northwestern boundaries than is  
11 allowed under the statewide regulations?

12 A. Yes, that's correct. I apologize.

13 Q. Okay. And so are you seeking an exception to  
14 that standard setback?

15 A. Yes.

16 Q. And have you provided notice to the offset  
17 interest owners --

18 A. Yes, I have.

19 Q. -- of which you are encroaching?

20 A. Yes. We have provided notice.

21 Q. Will you now turn to Chisholm's Exhibit Number  
22 2? And does this exhibit identify the tract of land  
23 comprising the proposed nonstandard spacing and  
24 proration unit?

25 A. Yes.

1           Q.    And does it show the drilling plans for the  
2   well?

3           A.    Yes.

4           Q.    Will you tell us what the nature of the land  
5   is?

6           A.    This is federal -- all federal lands.

7           Q.    And does this Exhibit Number 2 show the  
8   interest owners and the percentage of their interests in  
9   the nonstandard spacing and proration unit?

10          A.    Yes.

11          Q.    What type of interests are you seeking to pool  
12   in this case?

13          A.    We're seeking to pool the uncommitted working  
14   interest specifically of OXY and the overriding royalty  
15   interests.

16          Q.    So you've indicated on Exhibit 2 the parties  
17   that you're seeking to pool, the working interest  
18   owners?

19          A.    That's correct.

20          Q.    And that's what's been highlighted in yellow?

21          A.    Uh-huh.

22          Q.    And as you said, that's OXY USA?

23          A.    Yes.

24          Q.    Are there any overriding royalty interests that  
25   you're seeking to pool?

1           A.     Yes.

2           Q.     And have you provided them notice of this  
3     hearing?

4           A.     Yes, we have.

5           Q.     How about any unleased mineral interests?

6           A.     There are no unleased mineral interests.

7           Q.     And will you please turn to Chisholm Exhibit  
8     Number 3? Is this a copy of the well-proposal letter  
9     that was sent to the working interest owner in this  
10    case, OXY?

11          A.     That's correct.

12          Q.     And does it include an AFE?

13          A.     Yes, it did.

14          Q.     That's also part of Exhibit 3?

15          A.     Yes.

16          Q.     Are the costs reflected in the AFE consistent  
17    with what operators have incurred for drilling similar  
18    horizontal wells in this area?

19          A.     They are.

20          Q.     Has Chisholm made an estimate of overhead and  
21    administrative costs while drilling and producing each  
22    well?

23          A.     Yes, we have. It's 7,000 and 700.

24          Q.     7,000 a month for drilling?

25          A.     Correct.



1 Q. And 700 for producing?

2 A. Uh-huh.

3 Q. Are those costs consistent with what other  
4 operators are charging in this area for this type of  
5 well?

6 A. Yes.

7 Q. And would you ask that these overhead and  
8 administrative costs be incorporated into any order  
9 resulting from this hearing?

10 A. Yes, I would.

11 Q. What efforts have you undertaken to reach  
12 agreement with the parties you are seeking to pool?

13 A. We had a -- we flew to Houston and had a  
14 technical meeting with OXY. We had a subsequent  
15 technical meeting on the phone. We are currently  
16 negotiating the -- the JOA. They have actually signed  
17 an election letter, but no JOA has been signed. But we  
18 will certainly update the Commission as soon as we have  
19 a signed JOA.

20 Q. In your opinion, have you made a good-faith  
21 effort to reach an agreement with the uncommitted owner?

22 A. Yes.

23 Q. Did Chisholm also identify the offset owners or  
24 the lessees of record in the 40-acre tract surrounding  
25 the proposed unit?

1           A.     Yes.

2           Q.     Did Chisholm include the offset owners in the  
3 notice of this hearing?

4           A.     Yes.

5           Q.     If you'll turn to Exhibit Number 5, is this an  
6 affidavit from my office providing notice to the parties  
7 to be pooled, including the overriding royalty interest  
8 owners, the parties -- notice of the unorthodox well, as  
9 well as the offsets?

10          A.     Yes.

11          Q.     And then if you'll turn to Exhibit Number 4,  
12 the exhibit before that, and is this an Affidavit of  
13 Publication of the notice in the "Hobbs News-Sun" of  
14 this hearing?

15          A.     Yes.

16          Q.     Were Exhibit Numbers 1 through 5 prepared by  
17 you or compiled at your direction?

18          A.     Yes.

19                   MS. BROGGI: At this time, Mr. Examiner, I  
20 would move into evidence Chisholm Exhibits 1 through 5.

21                   EXAMINER McMILLAN: Okay. Exhibits 1  
22 through 5 may now be accepted as part of the record.

23                   (Chisholm Energy Operating, LLC Exhibit  
24 Numbers 1 through 5 are offered and  
25 admitted into evidence.)

1 MS. BROGGI: And I have no more questions  
2 for this witness.

3 EXAMINER McMILLAN: Do you have any  
4 questions?

5 EXAMINER LOWE: No, I don't.

6 CROSS-EXAMINATION

7 BY EXAMINER McMILLAN:

8 Q. Let's go back to Exhibit 2. Is it correct to  
9 state that your first perf will be 750 from the south  
10 and 1,475 from the west?

11 A. That's correct.

12 Q. And your last perf will be your bottom hole?

13 A. That's correct.

14 Q. Okay. Now, the OCD as a practice doesn't like  
15 you putting wells on unit boundaries because it's hard  
16 to tell exactly where you are. Would you object if we  
17 requested that you move it 10 feet either direction?

18 A. I would have to check with my technical team.  
19 I don't think that would be a problem. I think the  
20 reason for the -- the interest is uniform in the entire  
21 west half. We do have a subsequently planned well for  
22 the west half-west half in the same proration. I'm  
23 sorry. One proration unit to the west.

24 Q. But if you move it 10 feet, you're required to  
25 get a signed statement from the engineer saying that the

1     **cost won't change.**

2           A.     Okay.

3           **Q.     And were there unlocatable interests?**

4           A.     No.

5           **Q.     But you just -- you did the Affidavit of**  
6     **Publication out of an abundance of caution?**

7           A.     Well, if the base contracts did not allow for  
8     pooling of overriding royalty interests owners, that's  
9     why we did the publication, so they would be aware of  
10    the pooling that we've requested.

11                   MS. BROGGI:  Yeah.  Just to add to that, we  
12    believe that everybody received actual notice, but just  
13    out of an abundance of caution, we published.

14                   EXAMINER McMILLAN:  Okay.

15           **Q.     (BY EXAMINER McMILLAN) Are there any depth**  
16     **severances within this?**

17           A.     Not within the Bone Spring depths, no, sir.

18           **Q.     There's no API number assigned?**

19           A.     Not at this -- not at this time.

20           **Q.     And what's the status?**

21           A.     I believe we're expecting sometime in the next  
22    month to get this completed.  It's been filed for -- it  
23    was filed on -- in April, so maybe in September.  It's  
24    been taking us about six months.

25           **Q.     Has the well been drilled?**

1           A.    No.

2           Q.    So it's proposed?

3           A.    Correct.

4                   EXAMINER McMILLAN:  Go ahead, Leonard.

5                   EXAMINER LOWE:  I don't have any questions.

6                   EXAMINER McMILLAN:  Go ahead, David.

7                           CROSS-EXAMINATION

8  BY EXAMINER BROOKS:

9           Q.    Yeah.  I'm trying to figure out this location.

10          Now, what is your designated unit going to be -- spacing  
11          unit going to be?

12          A.    The east half of the west half of both of those  
13          sections.  If you'll look --

14          Q.    That's what I thought.

15          A.    Yeah.  If you'll look at Exhibit 3, I think it  
16          may be a little more clear.

17          Q.    Exhibit 3.  Okay.  Exhibit 3 looks like an AFE.  
18          Oh, you're -- yeah.  It's Exhibit 2 in this folder.  
19          Exhibit 1 seems to be the --

20          A.    Oh, you're right.

21          Q.    -- C-102.  Exhibit 2 is the plat.

22          A.    Uh-huh.

23          Q.    Now, the C-102 does not indicate that the well  
24          is going to be on the spacing unit boundary, rather it  
25          indicates it will be 1,475 from the west, which if it's

1 a regular section, it would be 145 feet east of the west  
2 line and the east half-west half, which would be  
3 nonstandard. But it's not on the line, so I don't think  
4 we would require it be moved if it's 145 feet from the  
5 line, but you can confirm that with the district  
6 geologist.

7 Have you asked for a nonstandard location  
8 approval in your application in this case?

9 MS. BROGGI: I can answer that. We have.  
10 The application does notice that.

11 EXAMINER BROOKS: Very good.

12 Q. (BY EXAMINER BROOKS) Let's see. What else are  
13 you asking for? You're asking for -- you're asking for  
14 compulsory pooling because you're asking to compulsory  
15 pool OXY, right?

16 MS. BROGGI: OXY, and we've also included  
17 the overriding royalty interests.

18 EXAMINER BROOKS: Okay. Very good. Thank  
19 you.

20 MS. BROGGI: So, Mr. Examiner, if we could  
21 confirm it's not on the line, will that address your  
22 concerns?

23 EXAMINER McMILLAN: Yeah, that's fine. The  
24 district offices like them moved 10 feet off the line,  
25 but 1,320 threw me for a loop.

1 THE WITNESS: I see.

2 EXAMINER BROOKS: It confused me also.

3 THE WITNESS: Uh-huh.

4 EXAMINER BROOKS: If it's not on the line,  
5 then it's not going to be a requirement to move it.

6 THE WITNESS: Yeah. I believe that's  
7 because of the surface-hole location. They intended to  
8 drill the west half-west half off of the same pad --  
9 surface pad, so they're going to build out a little bit.  
10 So the first take point will be, as Mr. Brooks said, 140  
11 feet from the line. But the surface-hole location  
12 itself is -- I believe that is very close to the line,  
13 if not on the line.

14 EXAMINER McMILLAN: Yeah. So if you'll  
15 check that.

16 MS. BROGGI: Okay. We'll look into that.

17 THE WITNESS: Sure. We can do that.

18 EXAMINER McMILLAN: Thank you.

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

22 DIRECT EXAMINATION

23 BY MS. BROGGI:

24 Q. Good morning. Will you state your name, by  
25 whom you're employed and in what capacity?

1           A.    My name is Joshua Kuhn.  I'm a geologist for  
2   Chisholm Energy.

3           Q.    Have you previously testified before this  
4   Division as an expert witness in petroleum geology?

5           A.    Yes, I have.

6           Q.    Have your credentials been accepted by the  
7   Division and made a matter of record?

8           A.    Yes.

9           Q.    Are you familiar with the application filed by  
10   Chisholm in this case?

11          A.    Yes.

12          Q.    And have you conducted a geologic study of the  
13   lands in this area?

14          A.    Yes.

15                   MS. BROGGI:  Mr. Examiner, at this time I  
16   would tender Mr. Kuhn as an expert witness in petroleum  
17   geology.

18                   EXAMINER McMILLAN:  So qualified.

19                   MS. BROGGI:  Just for your benefit,  
20   Exhibits 6 and 7 are attached to the back of the exhibit  
21   notebook.

22                   EXAMINER McMILLAN:  Okay.  Thanks.

23          Q.    (BY MS. BROGGI) Mr. Kuhn, will you turn to  
24   Exhibit Number 6, and can you identify this for the  
25   examiners?



1           A.    Yes.  This is a subsea structure map at the top  
2   of the 2nd Bone Spring Sandstone.  The yellow on the map  
3   is Chisholm Energy's leasehold.  The contour interval is  
4   50 feet, so you can see gently dipping beds to the  
5   south-southeast, as well as our proposed well starting  
6   in the -- south of Section 12, drilling north to  
7   Section 1.

8                   The blue attributes indicate wells that  
9   were used to create the structure map.  The red numbers  
10  are the subsea depths at which the top of the 2nd Bone  
11  Spring Sandstone was picked, and the light brown  
12  attributes are wells that have -- wells that produced  
13  from the 2nd Bone Spring Sandstone.

14                  Also, on the horizontal wells in Section 2,  
15  all the 2nd Bone Spring Sandstone tops are posted at the  
16  bottom-hole location.  And if you look north, to the  
17  north side of Section 2, those red dots indicate where  
18  the 2nd Bone Spring Sandstone was penetrated.

19                  Also identified on this map is the Buffalo  
20  12-1 Fed Com 2BS 1H in the dashed gray line and at a  
21  three-well -- a four-well cross section, A to A prime,  
22  going from the southwest to the northeast.

23           **Q.    And do you consider the wells at A, A prime to**  
24  **be representative of the Bone Spring in this area?**

25           A.    Yes, I do.

1           Q.    And based on your study, is there any faulting  
2   or pinch-outs or geologic hazards to drilling a  
3   horizontal well here?

4           A.    No.

5           Q.    Will you turn now to Chisholm's Exhibit Number  
6   7, and can you identify this for the examiner?

7           A.    Yes. This is a stratigraphic cross section  
8   from A to A prime hung on the top of the 2nd Bone Spring  
9   Sandstone, the orange line at the top. The base of the  
10   2nd Bone Spring Sandstone is also labeled, the black  
11   line towards the bottom. This cross section, in my  
12   opinion, indicates uniform thickness of the 2nd Bone  
13   Spring Sand across the proposed interval which we intend  
14   to drill.

15                   We are going to be drilling a pilot hole  
16   before we drill the horizontal well, so that'll help --  
17   help us in the targeting side and indicating which  
18   interval of the 2nd Bone Spring Sand we've proposed to  
19   drill horizontally.

20                   And if you look at the logs, the first  
21   track -- and I apologize for the poor log quality. We  
22   only have raster data. But the first track is gamma  
23   ray. The second track is resistivity, and the third  
24   track is neutron-density porosity.

25           Q.    Based on your geologic study of this area, have

1     you identified any geologic impediments to drilling a  
2     horizontal well in this area?

3             A.     No.

4             Q.     In your opinion, will each quarter-quarter  
5     section be productive and contribute more or less  
6     equally for each quarter-acre unit comprising the  
7     nonstandard unit?

8             A.     Yes.

9             Q.     In your opinion, will horizontal drilling be  
10    the most efficient method in this acreage to prevent the  
11    drilling of unnecessary wells and result in the greatest  
12    ultimate recovery?

13            A.     Yes.

14            Q.     And in your opinion, will the granting of  
15    Chisholm's application in this case be in best interest  
16    of conservation, the prevention of waste and the  
17    protection of correlative rights?

18            A.     Yes.

19            Q.     Were Exhibits 6 and 7 prepared by you or  
20    compiled under your direction and supervision?

21            A.     Yes.

22                    MS. BROGGI: At this time, Mr. Examiner, I  
23    would move the admission of Chisholm Exhibits 6 and 7.

24                    EXAMINER McMILLAN: Exhibits 6 and 7 may  
25    now be accepted as part of the record.

1                   (Chisholm Energy Operating, LLC Exhibit  
2                   Numbers 6 and 7 are offered and admitted  
3                   into evidence.)

4                   MS. BROGGI: I have no more questions for  
5                   the witness.

6                   CROSS-EXAMINATION

7                   BY EXAMINER McMILLAN:

8                   Q.    So if I'm understanding what you're saying,  
9                   you're going to drill a pilot hole, and then you're  
10                  going to figure out -- within the 2nd Bone Spring?

11                  A.    Yes. We've actually drilled -- the wells up  
12                  to the -- in Section 2, to the northwest of that  
13                  location, those four wells were drilled by Chisholm  
14                  Energy, all four of them in the 2nd Bone Spring Sand.  
15                  So we like the well results we've seen so far, and we  
16                  intend to target similarly to those wells.

17                  Q.    So do you expect to drill multiple 2nd Bone  
18                  Spring wells?

19                  A.    As part of the full development?

20                  Q.    Yeah, full development.

21                  A.    Full development, yes. We will continue to  
22                  drill multiple 2nd Bone Spring wells.

23                  Q.    And then looking at Exhibit 7, where is the  
24                  targeted interval for the horizontal wells that are  
25                  existing?

3           A.     So the three western wells in Section 2, we're  
4     targeting the -- we're targeting the Lower 2nd Bone  
5     Spring Sandstone, looking at the low resistivity and  
6     higher neutron-density porosity. The farthest well to  
7     the east in Section 2 was targeted in the Upper 2nd Bone  
8     Spring Sandstone, again looking at the lower resistivity  
9     and higher porosity. And so we intend to target one of  
10    those two intervals, either of which being the 2nd Bone  
11    Spring Sand, both of which we like.

14           A.     The reserves? I'd have to consult a reservoir  
15     engineer, but as far as the type curves and the way  
16     they're producing, they're relatively close.

19           A.    Yes, sir.

21 BY EXAMINER LOWE:

24           A.    I'm sorry.  We'll be drilling the pilot hole in  
25   Section 12.

1           **Q.    Section 12.**

2           A.    Correct.  This pilot hole will be drilled as  
3   part -- you know, it will be the Buffalo --

4           **Q.    Okay.  That's all the questions I have.**

5           A.    Okay.

6           **Q.    Thank you.**

7                       EXAMINER BROOKS:  No questions.

8                       RECROSS EXAMINATION

9   BY EXAMINER McMILLAN:

10          **Q.    I'm just curious.  How come you didn't make**  
11 **this whole west half the project area?  I should have**  
12 **asked the landman that.**

13                      MS. BROGGI:  Would you like to ask him?

14                      EXAMINER McMILLAN:  Yeah.  I'd like to ask  
15 him.  I'd like to know why.

16                      MR. ARMOUR:  The plan is to do that at some  
17 point in the future.  We just -- at this point, these  
18 are the wells we've proposed because we're trying to get  
19 the JOA -- JOA that covers the west half of both  
20 sections, and at some point, we will be doing that.  
21 These are the APDs that we filed.

22                      EXAMINER McMILLAN:  Okay.

23                      MS. BROGGI:  If the Division has no further  
24 questions, we would ask that Case Number 16262 be taken  
25 under advisement.

1                   EXAMINER McMILLAN:   Okay.   Case Number  
2   16262 shall be taken under advisement.  
3                   Thank you very much.  
4                   Why don't we take a ten-minute break?  
5                   (Case Number 16262 concludes, 9:12 a.m.)  
6                   (Recess, 9:12 a.m. to 9:28 a.m.)

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1 STATE OF NEW MEXICO  
2 COUNTY OF BERNALILLO

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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 11th day of August 2018.

21

22

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