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1	STATE OF NEW MEXICO
2	ENERGY, MINERAL AND NATURAL RESOURCES DEPARTMENT
3	OIL CONSERVATION DIVISION
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6	April 14, 2016 2:56 p.m.
7	Wendell Chino Building Porter Hall
8	1220 S. St. Francis Drive Santa Fe, New Mexico
9	TRANSCRIPT OF PROCEEDINGS
10	TRANSCRITT OF TROCHESTINGS
11	CASE NO. 15470
12	APPLICATION OF ENCANA OIL & GAS (USA) INC., FOR APPROVAL
13	OF THE Corrales Canyon Unit, SANDOVAL COUNTY, NEW MEXICO
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16	BEFORE: WILLIAM JONES, Lead Examiner
17	SCOTT DAWSON, Examiner DAVID K. BROOKS, Legal Examiner
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21	REPORTED BY: DEBRA ANN FRIETZE  PAUL BACA COURT REPORTERS
22	500 4th Street, NW, Suite 105 Albuquerque, New Mexico 87102
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1	APPEARANCES	
2	For the Appliant:	
3	For the Applicant:	
4	HOLLAND & HART 110 North Guadalupe, Suite 1	
	Santa Fe, New Mexico 87501	
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7	WITNESSES PAGE Mona Binion 4	
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10	EXHIBITS MARKED 1 through 5 9	
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14	REPORTER'S CERTIFICATE 25	
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- 1 MONA BINION
- 2 having been previously sworn under oath,
- 3 was questioned and testified as follows:
- 4 DIRECT EXAMINATION
- 5 BY MS. KESSLER:
- 6 O. Can you please state your name for the record?
- 7 A. My name is Mona Binion. I'm with Encana Oil
- 8 and Gas, USA, Inc., and I am the land negotiator
- 9 responsible for the San Juan Basin.
- 10 Q. Were you previously sworn in before the -- have
- 11 you previously testified today before the Division?
- 12 A. Yes, I have.
- Q. And your credentials as a petroleum land person
- 14 were accepted and made a matter of record?
- 15 A. Yes.
- 16 Q. You're familiar with the application in this
- 17 case?
- 18 A. Yes, I am.
- 19 Q. And you're familiar with the status of the
- 20 lands in the subject area?
- 21 A. Yes.
- MS. KESSLER: I would ask that Ms. Binion
- 23 once again be tendered as an expert in petroleum land
- 24 matters.
- 25 EXAMINER DAWSON: Ms. Binion is admitted as

- 1 an expert in petroleum land matters.
- 2 O. (By Ms. Kessler) Would you please turn to
- 3 Exhibit 1 and identify this exhibit and explain what
- 4 Encana seeks under this application?
- 5 A. Exhibit 1 is a map depicting the location of
- 6 Encana's proposed Corrales Canyon Unit. It's shown on
- 7 the map in bold, black lines. There's also two
- 8 additional units that Encana has in effect that are also
- 9 shown in blue lines. Those are existing units.
- The existing oil pools that are in the
- 11 vicinity of Corrales Canyon are also depicted on the
- 12 map, none of which are within, you know, the boundaries
- of the Corrales Canyon Unit. So the Corrales Canyon
- 14 Unit would currently be under the rules of the wildcat
- 15 rules in the State spacing orders -- I mean spacing
- 16 rules.
- 17 Encana seeks to have the approval of the
- 18 Division for the formation of the Corrales Canyon Unit.
- 19 There is no new pool being requested for this pool -- I
- 20 mean for this unit because the existing pool rules under
- 21 the wildcat rules can apply. They already require a
- 22 setback of 330 foot from the boundaries.
- Q. And the Corrales Canyon Unit is approximately
- 24 2,560 acres; is that correct?
- 25 A. Correct.

- 1 Q. Is it comprised of federal and state acreage?
- 2 A. Yes.
- Q. And to reiterate, you are not seeking the
- 4 formation of a new pool?
- 5 A. No, I'm not. We are not.
- Q. Is Exhibit 2 a copy of the Unit Agreement?
- 7 A. Yes.
- 8 O. Is that first pink tab Exhibit A, and does this
- 9 identify the unit outline and leases involved in this
- 10 acreage?
- 11 A. Yes, it does.
- 12 Q. And it also identifies the percent of federal
- 13 and state lands?
- 14 A. Yes.
- Q. Exhibit B, does this identify the percent of
- 16 all of the ownership?
- 17 A. Yes.
- 18 Q. Does the agreement follow the federal form?
- 19 A. It follows the general form of a federal
- 20 undivided exploratory unit. It's been modified to
- 21 accommodate limitation of the unitization to horizontal
- 22 development only, and it is limited to an existing
- 23 unitized interval one formation.
- It's also been modified recently to
- 25 accommodate for payment of compensatory royalty required

- 1 under the -- go to federal regulations -- to any
- 2 unleased federal tract that is located within the
- 3 boundaries of the unit. And in this particular unit, we
- 4 have a tract that is currently unleased.
- 5 O. Will the unit be treated as a single
- 6 participating area?
- 7 A. Yes.
- 8 Q. And does paragraph 3 of the Unit Agreement
- 9 identify the unitized interval?
- 10 A. Yes.
- 11 Q. Is that third pink tab, labeled Exhibit C, is
- 12 this the type log for the unit interval?
- 13 A. Yes. It's a visual depiction of the type
- 14 log -- I mean of the unitized interval which was
- described in paragraph 3 of the Unit Agreement.
- Q. Have you visited with the BLM, the State Land
- 17 Office, and the Oil Conservation Division about this
- 18 unit?
- 19 A. Yes, we have.
- Q. Is Exhibit 3 an approval letter from the State
- 21 Land Office?
- 22 A. Yes, it is.
- 23 Q. And is Exhibit 4 an approval letter from the
- 24 BLM?
- 25 A. Yes, it is.

- 1 Q. How many working interest owners are involved
- 2 in this unit?
- A. There are three working interest owners,
- 4 including Encana.
- 5 Q. Have they agreed to the voluntary unit?
- A. Preliminarily, yes, they have agreed to the
- 7 unit.
- 8 O. Turning back to Exhibit 1, you mentioned
- 9 earlier that the unit acreage is entirely within a
- 10 wildcat oil pool, correct?
- 11 A. Right.
- 12 O. And that would be subject to statewide 330-foot
- 13 setbacks?
- 14 A. Yes.
- 15 Q. Did Encana identify the -- provide notice to
- 16 the working interest owners and the overriding royalty
- 17 interest owners within this unit?
- 18 A. Yes.
- 19 Q. And did the notice provide them a copy of the
- 20 application for hearing and a copy of the Unit
- 21 Agreement?
- 22 A. Yes.
- 23 O. Is Exhibit 5 an affidavit with attached letters
- 24 providing notice of this hearing to the working interest
- 25 owners and overriding royalty interest owners?

- 1 A. Yes.
- Q. And they were all locatable?
- 3 A. Yes.
- 4 Q. Were Exhibits 1 through 4 prepared by you or
- 5 under your direction and supervision?
- 6 A. Yes.
- 7 MS. KESSLER: Mr. Examiner, I'd move
- 8 admission of Exhibits 1 through 5.
- 9 EXAMINER DAWSON: Exhibits 1 through 5 will
- 10 be admitted to the record.
- 11 [Exhibits 1 through 5 admitted.]
- 12 EXAMINER DAWSON: Do you have any
- 13 questions, David?
- 14 EXAMINER BROOKS: No, I have no questions.
- 15 EXAMINER DAWSON: Any questions, Michael?
- MR. McMILLAN: I'm just curious -- well, I
- 17 quess I'm going back, though. The pink tab, 1, I'm just
- 18 curious. Whoever purchased that lease is going to be
- 19 subject to the terms of the agreement?
- 20 THE WITNESS: Yes, sir. The BLM has
- 21 advised us that when the lease will be set up for sale,
- 22 that it will require that the new lessee join the unit.
- 23 And then that new lessee will be responsible from that
- 24 point forward for paying the compensatory royalties that
- 25 we have been paying before. It would be paid under the

- 1 lease, a new lease.
- MR. McMILLAN: Okay. So they don't get a
- 3 cut of the previous production --
- 4 THE WITNESS: Yes, they do. They get
- 5 compensatory royalty payments. Under the CFR, when an
- 6 unleased tract is included in a spacing unit, that tract
- 7 gets allocated royalty, and it's a royalty at the same
- 8 rate. A royalty would be issued under a lease. And
- 9 then the O&R sets up a dummy lease number to accommodate
- 10 that royalty, and then the owners inside the spacing
- 11 unit pay that royalty.
- MR. McMILLIAN: Oh, okay.
- 13 THE WITNESS: And that's why we had to
- 14 revise the Unit Agreement, because it didn't adequately
- 15 provide how that happens, but the CFR requires it.
- MR. McMILLAN: Thank you.
- 17 EXAMINER DAWSON: Ms. Binion, in the
- 18 preliminary discussions with the BLM and the Land
- 19 Office, I'm assuming they were okay with including that
- 20 open unleased acreage?
- 21 THE WITNESS: The BLM required that we
- 22 include it. We would have chosen, had we been given an
- 23 option, to exclude it. It would have been simpler. But
- 24 the BLM -- it was necessary for us to include it because
- 25 they were concerned about the other acreage being

- 1 developed. And if they could not lease that tract, you
- 2 know, there could be potential drainage, in their
- 3 opinion, so they wanted it included in the unit. And
- 4 the State was aware of that when we, you know, proposed
- 5 it preliminarily. So they were okay with it.
- 6 EXAMINER DAWSON: Did the BLM give you any
- 7 indication as to when that northwest corridor of the
- 8 Section 26 unleased acreage that we're talking about,
- 9 did they give you an idea as to when that would be put
- 10 on? That's going to have to go to a lease sale,
- 11 correct?
- 12 THE WITNESS: They're currently considering
- it for an October lease sale, but I don't think there's
- 14 any final resolution whether or not it's going to make
- 15 it on that sale. But it's being reviewed for the sale.
- 16 EXAMINER DAWSON: And there have been no
- 17 wells drilled?
- 18 THE WITNESS: Yes. There is a well drilled
- 19 in the south half of Section 24, the Lybrook
- 20 P-24220601H, and that would be considered the initial
- 21 obligation well.
- 22 EXAMINER DAWSON: Okay. And I could ask
- 23 Mr. Graven about that well, so that's all the questions
- 24 I have.
- Thank you, Ms. Binion.

- 1 EXAMINER DAWSON: You may call your next
- 2 witness now, Ms. Kessler.
- 3 ERIK GRAVEN
- 4 having been previously sworn under oath,
- 5 was questioned and testified as follows:
- 6 DIRECT EXAMINATION
- 7 BY MS. KESSLER:
- Q. Would you please state your name for the
- 9 record?
- 10 A. Erik Graven.
- 11 Q. By whom are you employed?
- 12 A. Encana Oil and Gas.
- 0. And what is your occupation?
- 14 A. I'm the senior geologist working the San Juan
- 15 Basin.
- Q. Did you previously testify before the Oil
- 17 Conservation Division today?
- 18 A. Yes, I did.
- 19 Q. And were your credentials at that time made a
- 20 matter of public record?
- 21 A. Yes.
- 22 Q. Are you familiar with the application in this
- 23 case?
- 24 A. Yes, I am.
- 25 Q. And have you conducted a geologic study of the

- 1 lands that are the subject of this application?
- 2 A. Yes, ma'am.
- MS. KESSLER: I'd once again tender
- 4 Mr. Graven as an expert witness in petroleum geology.
- 5 EXAMINER DAWSON: Mr. Graven is admitted as
- 6 a petroleum expert in -- an expert in petroleum
- 7 geology.
- 8 O. (By Ms. Kessler) Are you familiar with the
- 9 horizon that is being unitized for the proposed unit?
- 10 A. Yes, I am.
- 11 Q. Could you please turn to Exhibit 6 and identify
- 12 that horizon?
- 13 A. Yes. Exhibit 6 shows a type log from the
- 14 Navajo allotted Number 1 Well, and it shows the unitized
- 15 depths extending from 100 feet below the top of the
- 16 Mancos Shale down to the base of the Greenhorn Limestone
- 17 or top of the Graneros Shale.
- 18 Q. Do you believe this interval extends across
- 19 acreage that Encana seeks to unitize?
- 20 A. Yes, I do.
- O. What is Exhibit 7?
- 22 A. Exhibit 7 is a structure contour map on top of
- 23 the Mancos Shale. The contour interval on this map is
- 24 20 feet. It's showing gentle dips downward to the
- 25 north/northeast, approximately 2 degrees down.

- 1 It shows the outline of the proposed
- 2 Corrales Canyon Unit in red and the adjacent expanded
- 3 Venado Canyon in dashed black, just to the north.
- It also shows two cross-sections, AA prime,
- 5 which is generally from southwest to northeast, and BB
- 6 prime, generally from northeast or northwest to
- 7 southeast. And it also shows the type log with a green
- 8 hexagon located just west of the proposed unit.
- 9 There's no indication of faulting or other
- 10 structural complications across the unit.
- 11 O. What is Exhibit 8?
- 12 A. Exhibit 8 is the cross-sections of AA prime,
- 13 shown on the previous map. It shows a series of logs,
- 14 like gamma ray, resistivity and porosity logs, which
- 15 demonstrate the continuity of the unitized interval
- 16 across the proposed unit area.
- 17 Well control within the unit itself is very
- 18 sparse. There have only been two wells drilled. So a
- 19 number of these wells that I'm showing on the cross
- 20 sections come from outside of the unit. But they do
- 21 surround the unit in a regional sense, so they do seem
- 22 to demonstrate the continuity of these intervals across
- 23 the unit area.
- 24 Q. Exhibit 9?
- 25 A. Exhibit 9 is cross-section BB prime, again

- 1 shown on a previous map.
- 2 This is the cross section that extends from
- 3 the northwest to the southeast. And again, it documents
- 4 the continuity of the unitized intervals across the
- 5 proposed unit. There's no indication of stratigraphic
- 6 pinchouts or truncations within these unitized
- 7 intervals.
- 8 Q. In your opinion, will approval of this
- 9 application be in the best interest of conservation for
- 10 the prevention of waste and the protection of
- 11 correlative rights?
- 12 A. Yes, it will.
- 13 Q. Is Exhibit 10 the current development plan for
- 14 the unit?
- 15 A. Yes. This is a preliminary development plan.
- 16 We have done some recognizance out there. But once
- 17 again, we do not have any existing APDs for any of these
- 18 horizontal well sticks that are shown on the map.
- 19 One exception may be that east-to-west
- 20 horizontal well just north of the P-24 or 2206. I
- 21 believe we may have an APD for that well, but the other
- 22 wells we do not have APDs for yet.
- Q. Is Encana required to submit an annual
- 24 development plan to the authorized officer with the BLM
- 25 under the Unit Agreement?

- 1 A. Yes.
- 2 Q. And Encana has already drilled the initial
- 3 development well, correct?
- 4 A. Yes. We drilled the P-24 -- the Lybrook P-24
- 5 220601H Well.
- 6 O. And has the BLM agree to treat this as the
- 7 initial unit well?
- 8 A. Yes, they have.
- 9 Q. Were Exhibits 6 through 10 prepared by you?
- 10 A. Yes, they were.
- 11 MS. KESSLER: Mr. Examiner, I'd move
- 12 admission of Exhibits 6 through 10.
- 13 EXAMINER DAWSON: Exhibits 6 through 10
- 14 will be admitted to the record.
- 15 [Exhibits 6 through 10 admitted.]
- 16 EXAMINER DAWSON: Do you have any
- 17 questions, Mike?
- MR. McMILLAN: Go ahead.
- 19 EXAMINER DAWSON: Mr. Graven, that initial
- 20 well, the Lybrook P24 2206 01H located in the south half
- 21 of Section 24 there?
- THE WITNESS: Yes.
- 23 EXAMINER DAWSON: How's that well
- 24 performing?
- 25 THE WITNESS: That is a good well. It's

- 1 not as strong as some of our wells. It came on at an
- 2 initial 30-day average of approximately 250 barrels per
- 3 day. It's currently making approximately 40 barrels of
- 4 oil per day. It's not a bad well. We certainly are
- 5 confident that it will be deemed an economic well.
- 6 EXAMINER DAWSON: As I look on both the
- 7 cross sections, that well is on both cross sections, A
- 8 to A prime and B to B prime?
- 9 THE WITNESS: Yes.
- 10 EXAMINER DAWSON: And it looks like on the
- 11 density porosity curve on that well, it looks like the
- 12 porosity on that well is not near as good as some of the
- 13 wells to the west or south; is that correct?
- 14 THE WITNESS: Right. Yes, that's true, and
- 15 the whole entire section may not have as many porous
- 16 zones. There is still some fairly decent porosity in
- 17 the lower part of the Gallup. But you're right, it's
- 18 not quite as strong as some of the surrounding wells.
- 19 EXAMINER DAWSON: Yeah, I see that. Right
- 20 above the base of the Gallup, it looks like it's a
- 21 little bit better porosity in there?
- 22 THE WITNESS: Correct. And this is where
- 23 we target the horizontal for that well.
- 24 EXAMINER DAWSON: Okay. On your -- let me
- 25 find the exhibit. One of the maps I was looking at --

- 1 bear with me.
- The map on Exhibit 10, in the northeast,
- 3 northeast of 25, Section 25?
- 4 THE WITNESS: Yes.
- 5 EXAMINER JONES: And the
- 6 southwest/southwest of 26, and down there in the
- 7 southwest quarter of the -- or southwest corner down
- 8 there, it would be the southwest corner of the southeast
- 9 corridor of Section 35.
- 10 How are you going to fully develop that
- 11 unit? Are you going to eventually probably have wells
- in those areas where there's not really any wells?
- 13 THE WITNESS: If necessary, we'd drill
- 14 vertical wells in that area. At this point, shorter
- 15 horizontals would not be economic. But certainly in the
- 16 future, that may change with reduced well costs --
- 17 EXAMINER DAWSON: In other words, the
- 18 unitized area will be fully developed eventually?
- 19 THE WITNESS: Yes.
- 20 EXAMINER DAWSON: Okay. And you will
- 21 report any wellbore or interwell communication to the
- 22 Division?
- THE WITNESS: Yes.
- 24 EXAMINER DAWSON: And if there is an offset
- 25 operator to this unit, that requests a 330-foot setback

- 1 from the unit boundary, you will not oppose it?
- THE WITNESS: No, we would not.
- 3 EXAMINER DAWSON: That's all the questions
- 4 I have.
- 5 Do you have any questions?
- 6 EXAMINER BROOKS: Did you say this was
- 7 wildcat area?
- 8 THE WITNESS: Yes.
- 9 EXAMINER BROOKS: It's not in the Basin
- 10 Mancos Gas Pool?
- 11 THE WITNESS: No.
- 12 EXAMINER BROOKS: Now, how would it affect
- 13 your development plans if this area were placed in an
- 14 oil pool providing for 320-acre spacing units for
- 15 horizontal wells and 330-foot setbacks?
- 16 THE WITNESS: I don't believe it would
- 17 change it.
- MS. KESSLER: I don't think that that would
- 19 change anything, Mr. Examiner.
- 20 EXAMINER BROOKS: Now, the way you have
- 21 these wells drawn on Exhibit 10, and if I follow, you're
- 22 alleging these brown lines are expected to develop with
- 23 wells, right?
- 24 THE WITNESS: Right.
- 25 EXAMINER BROOKS: And the way you have them

- 1 drawn. You have some very short horizontals up in the
- 2 corner. I believe that's what Scott was asking you
- 3 about, if I interpreted his questions correctly.
- 4 You say you would probably, in fact, under
- 5 current economic conditions would be developing those
- 6 particular areas with vertical road and horizontal
- 7 wells, rather than the short horizontals depicted on
- 8 Exhibit 10?
- 9 THE WITNESS: No. Currently, we would
- 10 drill those short horizontals, but we couldn't drill
- 11 anything shorter than that at this time.
- 12 EXAMINER BROOKS: Okay. Now, with Scott
- 13 asking you then about the corners to the northeast of
- 14 that well shown in Section 25, and to the southwest of
- 15 that shown in the east half of Section 35?
- THE WITNESS: Yes.
- 17 EXAMINER BROOKS: Okay.
- 18 EXAMINER DAWSON: And also, Section 26, the
- 19 southwest/southwest corner.
- 20 EXAMINER BROOKS: Okay. And do you believe
- 21 that Mancos at this time, in a situation like that,
- 22 vertical wells would be economic?
- 23 THE WITNESS: At today's prices, probably
- 24 not. But hopefully in the future, they will be.
- 25 EXAMINER BROOKS: Well, I don't know what

- 1 today's prices are, but I would check the computer. I
- 2 can understand that response.
- Thank you.
- 4 MR. McMILLAN: I've got a couple of
- 5 questions. I'm now going back to Exhibit 9.
- 6 Where is the -- is the target interval
- 7 between the Gallup and what's called the Base Gallup, or
- 8 is it the Juana Carlos and Carlile?
- 9 THE WITNESS: No. It is within the Gallup
- 10 at this point. We do see the Juana Lopez and the
- 11 Carlile, as well as possibly the Greenhorn as being
- 12 perspective, but we haven't targeted those intervals
- 13 yet.
- MR. McMILLAN: The other question refers to
- 15 Exhibit 10, looking at these east/west well.
- Is the lack of reserves in this well versus
- 17 the reserves in the previous case related to the
- 18 orientation of the well?
- 19 THE WITNESS: Yes, exactly.
- MR. McMILLAN: Can you explain why?
- 21 THE WITNESS: Yes. Maximum horizontal
- 22 compressive stress in this entire region is from
- 23 northeast to southwest.
- As we induce fractures in our horizontals,
- 25 those induced fractures align parallel with that maximum

- 1 horizontal stress.
- 2 So if we drill a well that's oblique to
- 3 that stress, such as the P24 Well, we do experience some
- 4 near wellbore complications as those induced fractures
- 5 try to align with the maximum horizontal stress in the
- 6 area. And we believe that is what's causing our reduced
- 7 productivity of the wells that are drilled east to west
- 8 versus the wells that are drilled from northwest to
- 9 southeast or vice versa.
- MR. McMILLAN: What do you mean wellbore
- 11 problems? Expound on that.
- 12 THE WITNESS: I don't know if I have enough
- 13 expertise to expound on that, but there are -- as those
- 14 fractures try to align with that maximum horizontal
- 15 stress, there is some near wellbore, I guess, damage,
- 16 I'll call it, or inefficiencies in the fracture design
- 17 at that orientation.
- We're not sure exactly what's causing that,
- 19 but it has played out in all the wells that we've
- 20 drilled. I believe we drilled roughly seven wells at
- 21 that -- we call it transverse, the northwest to
- 22 southeast orientation. And they've all been much better
- 23 wells than our east-to-west wells.
- MR. McMILLAN: Okay. With that in mind,
- 25 looking at pilot holes -- I mean are the pilot holes, if

- 1 applicable, similar in terms of porosity versus
- 2 east/west versus diagonal?
- THE WITNESS: I'm not sure I understand
- 4 your question.
- 5 MR. McMILLAN: Is the porosity of the pilot
- 6 holes the same?
- 7 THE WITNESS: Yes.
- 8 MR. MCMILLAN: So essentially, comparing
- 9 apples to apples, right?
- 10 THE WITNESS: Yes.
- MR. McMILLAN: Okay, thank you.
- 12 EXAMINER DAWSON: I did have one other
- 13 question, Mr. Graven.
- Looking at your map, your structure map on
- 15 Exhibit 7, that formation dips south, maybe a bit
- 16 southwest, correct?
- 17 THE WITNESS: It's dipping down to the
- 18 northeast, north/northeast. We're above sea level so
- 19 it's...
- 20 EXAMINER DAWSON: Okay. Down to the
- 21 northeast. Okay. All right. That's my only question I
- 22 had left. Thank you.
- THE WITNESS: Thank you.
- 24 EXAMINER DAWSON: And Case Number 15470
- 25 will be taken under advisement, and that concludes

	Page 24
1	today's hearing. Thank you.
2	[The proceeding was concluded at 3:22 p.m.]
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	Page 25	
1	STATE OF NEW MEXICO.	
2	COUNTY OF BERNALILLO	
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8	REPORTER'S CERTIFICATE	
9	REPORTER'S CERTIFICATE	
10	I, DEBRA ANN FRIETZE, New Mexico Certified Court	
11	Reporter No. 251, do hereby certify that I reported the foregoing proceeding in stenographic shorthand and that the foregoing pages are a true and correct transcript of	
12	those proceedings and was reduced to printed form under my direct supervision.	
13		
14	I FURTHER CERTIFY that I am neither employed by nor	
15	related to any of the parties or attorneys in this case and that I have no interest in the final disposition of this case.	
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