		Page 2
1	APPEARANCES	rage 2
2	FOR APPLICANT DEVON ENERGY PRODUCTION COMPANY, L.P.	:
3	JAMES G. BRUCE, ESQ.	
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7	INDEX	D3 CE
8	WITNESSES:	PAGE
9	CRAIG HARRAN:	
10	Direct Examination by Mr. Bruce	4
11	Cross-Examination by Examiner Jones	10
12	RYAN RICKETT:	
13	Direct Examination by Mr. Bruce Cross-Examination by Examiner Jones	14 20
14	Proceedings Conclude	23
15	Certificate of Court Reporter	24
16		
17		
18	EXHIBITS OFFERED AND ADMITTED	
19	Devon Energy Exhibits Numbers 1 and 2	10
20	Devon Energy Exhibits Number 3 and 4	20
21		
22		
23		
24		
25		

- 1 (10:14 a.m.)
- 2 EXAMINER JONES: Call Case Number 14943
- 3 application of Devon Energy Production Company, LP for
- 4 approval of the disposal well in Lea County.
- 5 Call for appearances.
- 6 MR. BRUCE: Mr. Examiner, Jim Bruce of
- 7 Santa Fe representing the Applicant. I have two
- 8 witnesses.
- 9 EXAMINER JONES: Any other appearances?
- 10 Will the witnesses please stand?
- 11 And the court reporter will swear the
- 12 witnesses.
- 13 (Mr. Harran and Mr. Rickett sworn.)
- 14 CRAIG HARRAN,
- after having been previously sworn under oath, was
- 16 questioned and testified as follows:
- 17 DIRECT EXAMINATION
- 18 BY MR. BRUCE:
- 19 Q. Would you please state your name and city of
- 20 residence, for the record?
- 21 A. Craig Harran, H-A-R-R-A-N, Oklahoma City,
- 22 Oklahoma.
- Q. And who do you work for and in what capacity?
- A. Devon Energy Corporation, and I'm a petroleum
- 25 geologist.

- 1 Q. Have you previously testified before the
- 2 Division?
- 3 A. No.
- 4 Q. Will you please summarize your educational and
- 5 employment background for the Examiner?
- A. I've a Bachelor's of Science in engineering
- 7 geology from UCLA, a Master's of Engineering in geologic
- 8 engineering from the Colorado School of Mines. I've
- 9 been a geologist with Energy Devon for five-and-a-half
- 10 years, working the Permian Basin for two-and-a-half
- 11 years and the Rocky Mountain Basins for three years
- 12 before that.
- 13 Before working for Devon, I worked for
- 14 Mobile Oil and Exxon as a hydrogeologist and an
- 15 environmental engineer in refining.
- 16 Q. And does your area of responsibility at Devon
- include this portion of southeast New Mexico?
- 18 A. Yes.
- 19 Q. And are you familiar with the geology involved
- 20 in this application?
- 21 A. Yes.
- MR. BRUCE: Mr. Examiner, I'd tender
- 23 Mr. Harran as an expert in petroleum geology
- 24 EXAMINER JONES: He is so qualified.
- Q. (BY MR. BRUCE) Mr. Harran, could you identify

- 1 Exhibit 1 for the Examiner and maybe discuss a little
- 2 bit the Devonian Reservoir in this area, which is the
- 3 zone you'll be injecting into, correct?
- 4 A. Correct.
- 5 This is a structure map of 100-foot contour
- 6 intervals. In the subsea, you can see the labels on the
- 7 intervals. Here there's also labeled cross section from
- 8 A to A prime, which you see labeled on Exhibit 1, and
- 9 that cross section is Exhibit 2.
- 10 What the map shows is a gentle dip to the
- 11 northeast of the top of the Devonian section. These
- 12 Devonian wells, gas wells, were drilled, roughly, on top
- of a structure that you can see here, the nose of the
- 14 structure kind of trending to the northeast and going
- down-dip off of the structure to the northeast.
- 16 Q. And the well which we're here for today is in
- 17 Section 33. That was a producing Devonian gas well,
- 18 correct?
- 19 A. Correct.
- Q. And it is no longer economic?
- 21 A. Correct.
- Also, just to make a point, that well is
- 23 labeled, at point A on the cross section, "Rio Blanco 33
- 24 Fed #2." On the bottom of the cross section, at A
- 25 prime, is the Rio Blanco 4 Fed Com #3, which there was a

- 1 hearing for two years ago, I believe.
- 2 O. Correct.
- MR. BRUCE: Mr. Examiner, for the record,
- 4 that is another Devonian injection well, which was
- 5 approved in Case 14600.
- 6 Q. (BY MR. BRUCE) This is a fairly new pool, is it
- 7 not, Mr. Harran? What time frame were the wells in this
- 8 pool drilled?
- 9 A. The wells were drilled here in the 2003-2004
- 10 time frame. The permeability is through fractures in
- 11 the Devonian lime and underlying dolomite. High
- 12 permeability due to fracture flow, so they tend to drop
- 13 off rather quickly.
- 14 Q. Is this pool quite depleted at this point?
- 15 A. Correct.
- And also you can see -- I don't want to
- 17 skip ahead to Exhibit 2, but the water-producing volumes
- 18 are listed -- are shown below the wells, relatively high
- 19 volumes, which are an indication of high permeability
- 20 through the fractures.
- 21 Q. And is it your understanding that normally a
- 22 saltwater disposal well could be approved
- 23 administratively, but because there is some -- still
- 24 some production in the area, the matter had to be set
- 25 for hearing?

- 1 A. Correct.
- Q. Before you move on to the next exhibit, you
- 3 mentioned water for the injection well. Where will the
- 4 water come from for the injection well?
- 5 A. The water will come from -- there is a Delaware
- 6 development that we have to the north, what we refer to
- 7 as our Gaucho unit, and then to the southwest, out of
- 8 our Thistle area. There are lower Brushy Canyon oil
- 9 wells. The Delaware section does introduce a high
- 10 volume of water, so this will aid in the development of
- 11 those pools.
- 12 In the other areas in the basin, we have
- injected Delaware-producing waters out of the lower
- 14 Brushy Canyon, into the Devonian, and there has not
- 15 appeared to be any compatibility issues.
- Q. So you wouldn't anticipate any compatibility
- 17 issues between the injection water and the formation
- 18 water in this case?
- 19 A. Correct, I would not.
- Q. Are there any open faults in this area that
- 21 would connect the injection zone to any underground
- 22 drinking water zone?
- A. Not that I'm aware of, no.
- Q. Why don't you move on to Exhibit 2; identify
- 25 that and discuss that for the Examiners?

- 1 A. So Exhibit 2 is a cross section going from
- 2 north to south. I have it labeled on the bottom, A to A
- 3 prime. So on the top of the Devonian interval, in red,
- 4 and I'm going from the bottom of the cross section, up,
- 5 overlain by the Woodford, which is a shalier interval,
- 6 which is overlain by the lower Mississippi, which is
- 7 kind of a limy interval.
- 8 You see at the bottom of the Devonian
- 9 interval here, the logs over this interval -- there are
- 10 penetrations just about 150 -- 100 to 150 feet into the
- 11 top of the Devonian, and there's where the production is
- 12 from. The logs are a little sporadic as far as
- 13 operators running logs over just certain intervals. So
- 14 what is shown here is what's available through his
- 15 database.
- 16 Q. Now, there were -- there were quite a few
- 17 Devonian wells in this pool; were there not?
- 18 A. On my map here, in Section 33 and 4, I've got
- 19 four shown right here, two in Section 33 and two in
- 20 Section 4 that were producing out of the Devonian.
- 21 Q. Does Devon have plans in the future -- does it
- 22 anticipate or plan on converting additional
- 23 noncommercial wells to inject?
- A. In the future, I believe we have plans to
- 25 convert the 33 #1, which is the next well to the right,

- 1 shown on the cross section from the 33 2. So, again,
- 2 the 33 2 is the well on the far left, and the 33 1 is
- 3 the next well over to the right. And we do anticipate
- 4 plans of converting that to SWD.
- 5 Q. And from a geologic standpoint, do you see
- 6 any -- the reservoir is depleted, as you stated?
- 7 A. Correct.
- 8 Q. From a geologic standpoint, do you see any
- 9 damage to the reservoir from injecting water into the
- 10 Devonian?
- 11 A. No.
- 12 Q. And I think you said, at the bottom of the
- 13 cross section, is well data?
- 14 A. Correct, cumulative production lines.
- Q. And these wells, they, themselves, produce
- 16 quite a bit of water?
- 17 A. Correct.
- 18 And in this area and in other areas, which
- 19 has led us to identify this as a suitable injection
- 20 zone, they've produced a lot of high permeability. And
- 21 other areas of the basin, they have been able to take a
- 22 lot of water.
- Q. Were Exhibits 1 and 2 prepared by you?
- 24 A. Yes.
- Q. And in your opinion, is the granting of this

- 1 application in the interest of conservation and the
- 2 prevention of waste?
- A. Yes.
- 4 MR. BRUCE: Mr. Examiner, I'd move the
- 5 admission of Exhibits 1 and 2.
- 6 EXAMINER JONES: Exhibits 1 and 2 will be
- 7 admitted.
- 8 (Devon Energy Exhibits Numbers 1 and 2 were
- 9 offered and admitted into evidence.)
- 10 CROSS-EXAMINATION
- 11 BY EXAMINER JONES:
- 12 Q. Okay. So are you proposing the Mississippi
- 13 production --
- 14 A. Not in this basin.
- 15 Q. Have you tried it, or does it look bad on the
- 16 logs or --
- 17 A. I have not tried it. In other parts of the
- 18 country, northern Oklahoma, southern Kansas, it is an
- 19 active play. That's not to say that people may not look
- 20 at this in the future. So, for example, Woodford is
- 21 prospective in Oklahoma, and ourselves and other
- 22 operators have looked at it in this basin, but, also,
- 23 that formation has not been prospective. So I can't
- 24 speak to future plans, but right now we are not
- 25 targeting the lower Mississippi.

- 1 Q. Are you proposing open-hole intervals, 14570 to
- 2 14660?
- 3 A. Correct.
- 4 O. And it's all Devonian --
- 5 A. Correct.
- 6 Q. -- through the whole interval?
- 7 A. Correct.
- 8 Q. And that wouldn't endanger any -- anything
- 9 up-hole on the Woodford, Mississippi and whatever --
- 10 A. Correct.
- 11 Q. -- be isolated?
- 12 A. Correct. And, again, that Woodford is a
- 13 low-permeability shale, which is likely a trap for the
- 14 gas that has been produced out of the Devonian itself.
- 15 So --
- Q. Okay. A source to the gas that's been
- 17 produced?
- 18 A. Possibility.
- 19 Q. The Devonian that did produce here through the
- 20 fractures, was it -- this well, what would it have
- 21 produced?
- A. So, again, our penetrations went roughly 150
- 23 feet into the top of the Devonian. There have been a
- 24 few wells in the basin completed through the -- drilled
- 25 through Devonian to basin granite. The Devonian

- 1 thickness is roughly 800 to 1000 feet, and relying on
- 2 the fracture permeability contributing gas throughout
- 3 this interval up to the producing zones where these
- 4 wells were drilled. So in my experience, wells drilled
- 5 in the Devonian have only gone 100, 150 feet into the
- 6 Devonian. I don't know of any that have drilled deeper
- 7 through the Devonian. People have relied on the
- 8 fracture permeability bringing the gas up to the
- 9 wellbore.
- 10 Q. This well that we're proposing today for
- 11 disposal, where does it sit as far as the structure of
- 12 the --
- 13 A. This cross section is a structural cross
- 14 section, so you can see that it's slightly lower
- 15 structurally than the other three wells -- or the other
- 16 two wells to the right of it. So as the structure dips
- 17 gently to the north, we are a little bit lower on the
- 18 structure.
- 19 Q. Okay. But the entire structure is depleted; is
- 20 that correct?
- 21 A. Correct. Correct.
- 22 So, for example, further to the south,
- 23 higher up on the structure, the Rio Blanco 4 Fed Com #3,
- 24 that we had a hearing for two years ago, that was an
- 25 economic well at the time, and still is, as the other

- 1 Devonian wells in this area are all uneconomic. So
- 2 these wells have been marginal for sometime now. And
- 3 it's been our experience and observations, again, due to
- 4 the high permeability of the fractures, these wells come
- 5 on strong in the beginning and drop off. And our
- 6 reservoir engineer can probably comment on that a little
- 7 more than I can.
- 8 Q. He's going to testify later?
- 9 A. Correct.
- 10 Q. So geologically, do you see an oil-water
- 11 contact there?
- 12 A. I do not.
- Q. What kind of logs did you have available to you
- 14 to look for that? Pretty good suite of logs?
- 15 A. Well, again, you can see. As far as in the Rio
- 16 Blanco 33 Fed #2, our penetrations -- the sonic logs,
- 17 you can usually -- as you go from the shales of the
- 18 Woodford, into the Devonian, you see a real decrease in
- 19 travel time on the sonic log. And then we have our mud
- 20 log going into that interval as well. But the sonic
- 21 really stands out, slow travel time, dense limestone,
- 22 and then below that is the dolomite. But it really
- 23 stands out on the logs.
- Q. Well, you guys will show a production curve of
- 25 the history of the reservoir, probably.

- 1 So as far as the water production, that
- 2 would be in blue?
- A. Correct. Water is in blue. Gas is in red, and
- 4 liquids are in green, which I assume are liquids --
- 5 associated liquids with the gas.
- 6 Q. So it was a gas reservoir?
- 7 A. Right. All of these are gas wells.
- 8 Q. The fractures orientation, do you know --
- 9 A. I don't know offhand.
- 10 Q. But is it like gigantic fractures, or are these
- 11 little microfractures?
- 12 A. I'm not certain. I have seen a core from some
- 13 Devonian wells, not from this area. So it would be
- 14 speculative to guess the aperture of those fractures.
- 15 Q. Okay. Well, thank you very much.
- 16 A. Okay.
- 17 EXAMINER BROOKS: No questions.
- 18 RYAN RICKETT,
- 19 after having been previously sworn under oath, was
- 20 questioned and testified as follows:
- 21 DIRECT EXAMINATION
- 22 BY MR. BRUCE:
- Q. Could you state your name and city of
- 24 residence?
- 25 A. Ryan Rickett, Oklahoma City, Oklahoma.

- 1 Q. And who do you work for?
- 2 A. Devon Energy.
- 3 Q. What's your job with Devon?
- A. I'm a reservoir engineer.
- 5 Q. Have you previously testified before the
- 6 Division?
- 7 A. I have not.
- 8 Q. Would you please summarize your educational and
- 9 employment background?
- 10 A. I received my Bachelor of Science in petroleum
- 11 engineering from Montana Tech in 2008, and I've been
- 12 employed with Devon since then. I work several regions
- 13 pertinent to this case, and I've been the regional
- 14 engineer for Lea County for the past 12 months.
- 15 Q. Have you testified before any other state
- 16 agencies and been qualified as an expert?
- 17 A. I have, the state of Montana.
- Q. You said this has been your area now, in Lea
- 19 County, for the past year?
- 20 A. That's correct.
- 21 Q. And you are familiar with the engineering
- 22 involved in this application?
- 23 A. I am.
- MR. BRUCE: Mr. Examiner, I tender
- 25 Mr. Rickett as an expert engineer.

- 1 EXAMINER JONES: In Montana, was that
- 2 eastern Montana?
- THE WITNESS: The Board is in Billings.
- 4 EXAMINER JONES: The matter you testified
- 5 about, was that --
- 6 THE WITNESS: No. It was actually northern
- 7 Montana. It was not Bakken. It was the Sawtooth and
- 8 the Sandstone.
- 9 EXAMINER JONES: Can you spell your last
- 10 name?
- THE WITNESS: It's Rickett, R-I-C-K-E-T-T.
- 12 So qualified. Thank you.
- Q. (BY MR. BRUCE) Mr. Rickett, first, we don't
- 14 have a decline curve, but can you provide one to the
- 15 Examiner, after the hearing, of the production?
- 16 A. I certainly can.
- 17 Q. Can you discuss the production from wells in
- 18 this pool?
- 19 A. Sir, these wells come on a very high gas rate,
- 20 upwards of 20 million a day initially, and they decline
- 21 very quickly, something to the order of probably 95 to
- 22 99 percent hyperbolic decline initially.
- Q. And so most of the gas is produced within the
- 24 first couple, three years of the well?
- 25 A. That's correct.

- 1 Q. And, again, is this -- the well we're here for
- 2 today, the 33 #2, is this well uneconomic at this time?
- 3 A. It is.
- 4 Q. You've got Exhibit 3, I see, already in front
- 5 of, Mr. Rickett.
- 6 A. Yes.
- 7 Q. Let's go through it. If you turn to page 3 of
- 8 the exhibit, could you discuss the injection well and
- 9 give a little info on it and how you plan to convert it
- 10 to --
- 11 A. Sure. We are planning on recovering the
- 12 existing tubing and packer, and we'll replace it with
- 13 higher-quality tubing and a new packer, and set
- 14 approximately 34 -- packer 3400 feet above the existing
- 15 Devonian perch, and we'll inject into the existing
- 16 Devonian.
- Q. And, again, the injection will all be into just
- 18 the Devonian Formation?
- 19 A. Correct.
- Q. What will be the approximate injection volumes?
- A. We've permitted on an average rate of 3,000
- 22 barrels per day, up to a maximum of 5,000 barrels per
- 23 day.
- Q. And the Division sets a .2 psi per foot of
- 25 depth limit on the injection pressure. Is this adequate

- 1 for injection into this well at this time?
- 2 A. Yes, it is.
- Q. Now, if you turn to page 8 of Exhibit 3, which
- 4 shows the half-mile area review and the Rio Blanco 33
- 5 Fed #2. It shows two other wells. What is the status
- of those wells, and what depths are they producing from,
- 7 if they are producing?
- 8 A. The Rio Blanco 33 Fed 3, the closer well, is
- 9 actually a Bone Spring producer. I'm not certain of the
- 10 current -- I don't know if it's producing, but it's out
- 11 of the Bone Spring.
- 12 Q. It doesn't penetrate the Devonian?
- 13 A. That's correct. The Rio Blanco 33 Fed 1 is
- 14 productive out of the Devonian, and it is currently --
- 15 it's producing intermittently. They have to have a
- 16 lease operator go out there to shut in the well, so the
- 17 pressure builds up and then can unload very quickly.
- 18 Q. And is that well properly drilled and completed
- 19 so as to prevent movement of the fluid between zones?
- 20 A. Yes, it is.
- 21 Q. And will the injection well be completed to
- 22 prevent movement of fluid between zones?
- 23 A. Yes.
- Q. And does Exhibit -- is Exhibit 17 [sic] a
- 25 spreadsheet of completion data on those three wells, the

- 1 injection well and the other two wells, within the area
- 2 of review?
- 3 A. That's correct.
- Q. And water analyses reports are contained in the
- 5 C-108; are they not?
- 6 A. They are.
- 7 Q. And based on what you reviewed, would there be
- 8 any compatibility problem between the injection water
- 9 and the formation water?
- 10 A. I do not see any compatibility issues.
- 11 Q. What are Devon's plans for the well? When
- would you like to commence injection into this well?
- A. As soon as possible. We have some Bone Spring
- 14 tests within five miles of this well, which, if
- 15 successful, would increase our development of the area
- 16 significantly. We would be bringing on a lot of water
- 17 pretty quickly.
- 18 Q. The Bone Spring wells in this area, at least in
- 19 the zones completed, do produce quite a bit of water?
- 20 A. Yes.
- 21 Q. And insofar as Bone Spring water, would that be
- 22 compatible with the formation water, also?
- 23 A. I believe so.
- MR. BRUCE: Mr. Examiner, pages 12 through
- 25 16 of the C-108 do contain information on offset

- 1 ownership.
- 2 And Exhibit 4 is simply my affidavit giving
- 3 notice to all of those parties. They all did receive
- 4 notice. The final page of Exhibit 4, there is a notice
- 5 to Scott Tanberg of Midland, Texas. He has not picked
- 6 up the delivery, or the mail, so I haven't gotten a
- 7 green card, but I believe that is a correct address.
- 8 Q. (BY MR. BRUCE) Mr. Rickett, have you reviewed
- 9 all the data in the C-108 and the technical data, and do
- 10 you agree with it?
- 11 A. I have, and I agree.
- 12 Q. And in your opinion, is the granting of this
- 13 application in the interest of conservation and
- 14 prevention of waste?
- 15 A. Yes.
- 16 MR. BRUCE: Mr. Examiner, I move the
- 17 admission of Exhibits 3 and 4.
- 18 EXAMINER JONES: Exhibits 3 and 4 will be
- 19 admitted.
- 20 (Devon Energy Exhibits Numbers 3 and 4 were
- 21 offered and admitted into evidence.)
- 22 CROSS-EXAMINATION
- 23 BY EXAMINER JONES:
- Q. Okay. Thanks for coming up here for this,
- 25 because, you know, we want to be careful about injecting

- 1 into a gas reservoir without talking to experts first.
- 2 A. Sure.
- 3 Q. But you're going for a saltwater disposal well.
- 4 You're not going for a lease pressure maintenance
- 5 project or anything like that?
- 6 A. That is correct.
- 7 Q. You didn't bring the landman.
- 8 So if you can send a production curve of
- 9 the whole -- of the whole reservoir and a production
- 10 curve of this well, that would be cool. If you could do
- 11 that --
- 12 A. Okay.
- Q. -- through your attorney; send it to him.
- 14 A. No problem.
- 15 Q. You can set the packer within 100 feet, right,
- 16 of the --
- 17 A. We can.
- 18 Q. Okay. I mean, you could ask for an exception
- 19 for that if you wanted to, but --
- 20 A. (Indicating.)
- Q. Do you have an idea about the gas recovery
- 22 factor out here? How much gas did you leave in place
- 23 once you abandoned this reservoir?
- A. I have not done an evaluation on the original
- 25 gas in place, but I believe it's reasonable that if we

- 1 were to continue to produce the rate at an operational
- 2 loss, I believe the additional gas that we would capture
- 3 would be less than one percent of the total EUR.
- 4 Q. And it would be uneconomic to continue; is that
- 5 correct?
- 6 A. I'm sorry?
- 7 Q. It's uneconomic to continue the production of
- 8 this well?
- 9 A. That's correct.
- 10 Q. Does it condensate -- is it condensate, that it
- 11 makes along with the -- or oil, or what gravity do you
- 12 see?
- 13 A. I believe it does make a little, but it is not
- 14 very rich. It's pretty dry gas.
- 15 Q. And the liquids that come with the gas, is that
- 16 50 gravity stuff or --
- 17 A. I could find out. I don't know.
- 18 Q. Well, on the production curve, if you can put
- 19 oil along -- or liquids along with the gas, that would
- 20 show that?
- 21 A. Certainly.
- 22 Q. Do you expect any boost in production from the
- 23 well to the south by producing this well -- or injecting
- 24 into this well?
- A. Are you referring to the Rio Blanco 33 Fed 1?

- 1 O. Yes.
- 2 A. We do not -- as Mr. Harran indicated, the
- 3 Rio -- in this Rio Blanco region, the Devonian wells
- 4 here -- there are four that we've discussed today, and
- 5 we are currently looking at all of them to be SWD
- 6 conversion. I do not anticipate to see any
- 7 interference, though, with this SWB conversion in that
- 8 well.
- 9 Q. These are federal wells, so you'll be
- 10 talking -- the BLM will be talking to you about the
- 11 economics of continuing versus disposing of the wells,
- 12 anyway?
- 13 A. Yes.
- Q. Okay. I don't have any other questions. Thank
- 15 you.
- 16 EXAMINER BROOKS: No questions. I looked
- 17 over Mr. Bruce's notices, and everything appears to be
- 18 in order.
- 19 EXAMINER JONES: Looks like it. Okay.
- 20 With that, if there is nothing further in this case,
- 21 we'll take Case 14943 under advisement.
- Let's take a five-minute break here.
- Case 14943 concludes; break taken, 10:43
- 24 a.m. to 100 feetilfy that the foregoing in
- 25 the Examiner hearing of Case No. ______

Examiner

	Page 2
1	STATE OF NEW MEXICO
2	COUNTY OF BERNALILLO
3	
4	CERTIFICATE OF COURT REPORTER
5	I, MARY C. HANKINS, New Mexico Certified
6	Court Reporter No. 20, and Registered Professional
7	Reporter, do hereby certify that I reported the
8	foregoing proceedings in stenographic shorthand and that
9	the foregoing pages are a true and correct transcript of
10	those proceedings that were reduced to printed form by
11	me to the best of my ability.
12	I FURTHER CERTIFY that the Reporter's
13	Record of the proceedings truly and accurately reflects
14	the exhibits, if any, offered by the respective parties.
15	I FURTHER CERTIFY that I am neither
16	employed by nor related to any of the parties or
17	attorneys in this case and that I have no interest in
18	the final disposition of this case.
19	Many C. Hankins
20	MARY C. HANKINS, CCR, RPR
21	Paul Baca Court Reporters New Mexico CCR No. 20
22	Date of CCR Expiration: 12/31/2013
23	
24	
25	