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4	THE PURPOSE OF C	CONSIDERING:	Case No.
5		COG OPERATING LLC FOR A ACING and PRORATION UNIT	15327 (De Novo)
6		POOLING, LEA COUNTY,	(20 110 0)
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8	REPORT	TER'S TRANSCRIPT OF PROCEED November 5, 2015	DINGS
9		Santa Fe, New Mexico	
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11	ROBERI	R. CATANACH, CHAIRPERSON S. BALCH, COMMISSIONER CK PADILLA, COMMISSIONER	
12		BRANCARD, ESQ.	
13		s matter came on for hearin	
14	November 5, 2015	Conservation Commission on 5, at the New Mexico Energy Durces Department, Wendell	, Minerals,
15	Building, 1220 S Room 102, Santa	South St. Francis Drive, Po Fe, New Mexico.	orter Hall
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21	REPORTED BY:	ELLEN H. ALLANIC NEW MEXICO CCR 100 CALIFORNIA CSR 8670	
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     Chairman Catanach
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     Mr. Brancard
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(Time noted 9:43 a.m.) 1 COMMISSIONER CATANACH: So the next order of 2 business today is Case No. 15327, Application of COG 3 4 Operating LLC for a non-standard spacing and proration 5 unit and compulsory pooling, Lea County, New Mexico. At this time, I will call for appearances in 6 7 this case. MR. FELDEWERT: May it please the Examiner, 8 9 Michael Feldewert and Jordan Kessler appearing on behalf of the applicant in this matter. We have two witnesses 10 here today. 11 12 MR. WADE: Gabriel Wade on behalf of the 13 OCD. I have one witness. 14 COMMISSIONER CATANACH: Any other 15appearances? 16 (No response.) 17 COMMISSIONER CATANACH: All right. 18 Mr. Feldewert. 19 MR. FELDEWERT: Mr. Chairman, if I may 20 approach. I've got a housekeeping matter I need to 21 address first. COMMISSIONER CATANACH: 22 You may. 23 MR. FELDEWERT: In preparing for this case, 24 we noticed that two of our exhibits in your exhibit notebook contained an error. And they involve Exhibits 25

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3 and 18 in that they contain an incorrect description 1 2 of the landing area of the proposed well. And so if I may approach, I have some 3 supplemental exhibits that we marked as Exhibit 3A and 4 5 Exhibit 18A to correct that error. COMMISSIONER CATANACH: Okav. 6 7 MR. FELDEWERT: Mr. Chairman and members of the Commission, we filed a prehearing brief to identify 8 for you the factual and the legal basis for this pooling 9 10 application that we have filed in this matter. 11 And you'll see that it's a limited pooling application. We seek to pool the upper portion of the 12 13 Yeso Formation only, the Paddock and Blinebry zones of the Yeso Formation. 14 15 And the fundamental reason for that is it 16 boils down to the circumstance where this limited 17 pooling application is necessary here to protect 18 correlative rights, because pooling the entire formation 19 results in the owners in the portion of the formation 20 that's actually contributing hydrocarbons to the well 21 being forced to share their production with an owner, a 22 single owner in a deeper zone of this formation that 23 will not contribute hydrocarbons to this proposed well and thereby clearly impairing the correlative rights of 24 25 our clients and the other working interest owners in

Page 6

1 those zones.

2 And if you take a look at Exhibit 3A, it shows the type log of the area. And what it shows here 3 4 is the correct description of our landing depth of the proposed well, which is at 6,400 feet. 5 And you will see that we are landing this 6 7 particular well in what is known as the Blinebry 8 interval of this much larger pool, the Maljamar-Yeso, 9 West Pool. This is a pool that was established by the 10 Division way back in 1950. And it has historically covered the entire Yeso Formation. 11 12 And if you keep this out and flip to our notebook and open up Exhibit No. 15, we provided you a 13 14 stratigraphic chart column of the northwest shelf area. 15 And we have highlighted in there the Yeso Formation. 16 And there's a couple of things you will It's one of the thickest formations in the 17 observe. It is 1,500 feet thick. It has four discernible 18 area. 19 intervals, the Paddock, the Blinebry, the Tubb, and the 20 Drinkard. 21 This application, as I mentioned, because of 22 correlative rights, seeks to only pool -- we've marked 23 there in blue -- the upper portion of this pool. 24 And there's two basic reasons for that. 25 First, we have a unique circumstance here where we have

a single interest owner Este, Ltd., Este Limited. 1 2 Because of the way they assign their acreage, they retain for themselves only an interest in the lower 3 portion of the Yeso -- what we've marked there in red --4 the Tubb and the Drinkard. So the ownership depth 5 6 severance line is at the base of the Blinebry, the same 7 interval where our well is going to be located at 6,400 feet. 8

Page 8

That leads to a couple of problems. One is 9 an accounting problem. I am not sure how you would deal 10 with their interest if you did pool the entire 11 formation. But, more importantly, the portion of the 12 13 Yeso Formation that Este has retained its ownership in is not going to contribute hydrocarbons to this well --14 we are going to have the geologist talk about that here 15 16 today -- because that Tubb Formation in which ownership starts is wet. It's not a contributing interval and 17 will not contribute hydrocarbons to this well. 18

19 So that is why we brought this application, 20 to only pool the portion of the formation first that has 21 the common ownership. There's common ownership from the 22 Paddock through the Blinebry. And that's the intervals, 23 particularly the Blinebry, that's going to contribute to 24 the proposed well. And so we just simply seek to 25 exclude from the pooling portions that Este owns that

1 will not contribute hydrocarbons to this well.

And what's also unique about this case -and which I think is helpful for the Commission -- is everybody agrees that's the way to go, including Este, the interest owner that is going to be excluded by this pooling application.

So if you think about this, what we are 7 trying to exclude here and what everybody thinks is 8 9 appropriate to exclude is really the equivalent of 10 vertical goat pasture. Remember the vertical equivalent 11 of excluding surface acreage that's not productive. Because if you force Concho or any other working 12 13 interest owner in this circumstance to pool this entire interval -- a pooling order can only allocate production 14 15 on a surface acreage basis, so you are forcing these interest owners in a productive portion of the interval 16 to share their production with an owner in the 17 nonproductive portion of the interval that is not going 18 19 to contribute hydrocarbons to the proposed well. That's a clear impairment of correlative rights. 20 Your 21 fundamental duty as the Commission is to protect 22 correlative rights.

23 So that is why we brought this application 24 here today in this unique circumstance. We are going to 25 ask the Commission, after you hear from our landman and

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Page 10 after you hear from our geologist, to enter an order 1 that pools only the acreage, the portion of this pool, 2 this very deep pool, above the base of the Blinebry 3 4 because that's necessary to protect correlative rights. And before we start with our witnesses here, 5 if you've got any questions about that, I will be happy 6 7 to try to answer them. But we do have a land witness that's going to go through all the land circumstances 8 9 here and the circumstances that we have with this depth ownership. And then we have a geologist that's going to 10 talk about this particular formation. 11 12 COMMISSIONER CATANACH: Okay. MR. WADE: Can the OCD make a brief 13 14 statement? 15 COMMISSIONER CATANACH: Certainly. 16 MR. WADE: The OCD won't be providing any 17 direct testimony from the witness, Mr. Goetze. He will 18 be available for questions from the Commission and possibly following. 19 20 In general, after internal discussions and 21 discussions with the applicant, the OCD feels that this application could be granted, based on the specific 22 facts, if the Commission finds that the absence of a 23 rule allowing it does not preclude the granting of the 24 25 application.

Page 11 COMMISSIONER CATANACH: Mr. Feldewert, are 1 2 you ready to proceed? MR. FELDEWERT: Yes, Mr. Commissioner. 3 If I may, we will call our first witness. And our witnesses 4 will be need to be sworn. 5 (WHEREUPON, the presenting witnesses 6 7 were administered the oath.) SEAN JOHNSON 8 9 having been first duly sworn, was examined and testified 10 as follows: DIRECT EXAMINATION 11 12 BY MR. FELDEWERT: 13 Q. Would you please state your name, identify by whom you are employed and in what capacity? 14 15 Α. My name is Sean Johnson. I'm employed by COG 16 Operating LLC also known as Concho. I am the land lead 17 for the New Mexico Shelf Asset Team. 18 Ο. Have you previously testified before the Division 19 as an expert in petroleum land matters? 20 Α. Yes, I have. 21 Have you had an opportunity to testify before the Ο. 22 Commission? 23 No, I have not. Α. 24 Why don't you just briefly outline your education 0. 25 and background.

Page 12 I graduated from Texas Tech University in 2009 1 Α. with my bachelor's of business administration in energy 2 commerce, petroleum land management. Where I was then 3 4 employed with ConocoPhillips, working the Balkan asset until August of 2011. Where I was then employed with 5 Concho, working the same asset of which I am currently 6 7 working now. And are you a member of any professional 8 0. 9 organizations and affiliations? Yes, I am. I am a member of the American 10 Α. Association of Professional Landmen, the Permian Basin 11 12 Landmen Association, the New Mexico Landmen Association. And I am also a certified professional landman. 13 And how long, for example, have you been a member 14 Q. of the American Association of Petroleum Landmen? 1516 Α. Going on seven years. Are you familiar with the application that has 17 0. 18 been filed in this case? Yes, I am. 19 Α. 20 And are you familiar with the status of the lands Ά. in this area? 21 22 Α. Yes, I am. I would tender Mr. Johnson 23 MR. FELDEWERT: 24 as an expert witness in petroleum land matters. 25 COMMISSIONER CATANACH: Mr. Johnson is so

Page 13

1 qualified.

Q. Mr. Johnson, please turn to what's been marked as
COG Exhibit 1. First identify it and then explain what
the company seeks under this particular pooling
application.

A. So Exhibit 1 is Concho C-102, the well location
and acreage dedication plat for COG's Sneed 9 Fed Com
23H Well, located in Township 17 South, Range 32 East in
Lea County, New Mexico.

10 COG's proposed nonstandard spacing unit would 11 encompass the south half of the northwest of section 9, 12 the south half of the northeast of section 9, and then 13 also the southwest of the northwest of section 10.

14 And underneath our application, COG is seeking 15 two things, one being an approved nonstandard spacing 16 unit order, and two being a pooling order pooling all 17 uncommitted interest into the productive interval from 18 the top of the Paddock to the base of the Blinebry. 19 And would that pool a portion of the Q. 20 Maljamar-Yeso West Pool that is identified on this 21 exhibit? 22 Α. Yes, it would.

Q. This exhibit then provides the Commission withthe API number for this well?

25 A. Yes, it does.

Page 14 As well as the pool code? 1 Q. Yes, it does. 2 Α. Okay. Will the completed interval for this well 3 Q. comply with the Division's setback requirement for oil 4 5 wells in this area? Yes, it will. 6 Α. I want you now to put this in perspective. 7 Let's 0. turn to what has been marked as COG Exhibit 2. Is this 8 9 an aerial area map that shows the location of this proposed well and nonstandard spacing and proration 10 11 unit? Yes, it is. 12 Α. Why don't you explain to the Examiners what all 13 Q. 14 the colors mean. 15 So what you see here is just a referenced Concho Α. 16 Yeso development plat of COG's proposed Sneed 9 Fed Com 23H Well. The yellow that you see is COG's acreage. 17 The wells that are identified by circles being -- you 18 will see some of them are just solid red. 19 That means those are solely Paddock producers. And then you'll see 20 some that are bicolored, being red and blue, which 21 22 indicates Paddock and Blinebry producers. 23 And you can see in the south half of the north 24 half of section 9 and in the southwest, northwest of section 10, fit in is COG's proposed Sneed 9 Fed Com 25

	Page 15
1	23Н.
2	Q. With respect to the circles that we see, half
3	blue and half red, those are vertical wells?
4	A. That is correct.
5	Q. Older vertical wells?
6	A. Correct, older vertical wells.
7	Q. And was the practice at the time these were
8	drilled to have perforations in the Blinebry and then
9	separate in the Paddock?
10	A. That's correct.
11	Q. And then does this also reflect that there's been
12	some more recent vintage wells, horizontal wells, that
13	have been drilled in this area?
14	A. Yes, that is correct.
15	Q. And those would be the lines and then they have
16	red circles associated
17	A. The red circles with the black line indicating
18	the lateral.
19	Q. Okay. Now, I want you to then turn rather
20	than turn to Exhibit 3, I want you to turn to the
21	substitute exhibit, which is Exhibit 3A. And first off,
22	does this particular exhibit correctly reflect the
23	landing depth of the proposed well?
24	A. Yes, it does.
25	Q. And that's at 6,400 feet?

	Page 16
1	A. That is correct.
2	Q. I think the previous Exhibit 3 had the landing
3	depth at sixty-four
4	A. 6,450.
5	Q. And other than that, the exhibit is the same as
6	the prior Exhibit 3?
7	A. Yes, that is correct.
8	Q. Okay. Is this a type log for one of the vertical
9	wells that we saw from section 9?
10	A. Yes, completely just right offset to our proposed
11	well.
12	Q. And for purposes of this hearing, does it
13	identify where the particular pool at issue starts?
14	A. Yes, it does.
15	Q. And is that at the top of the Paddock?
16	A. Yes, that is at the top of the Paddock.
17	Q. And that is the Maljamar-Yeso West Pool?
-18	A. Correct.
19	Q. And then it continues on through to the bottom of
20	the Yeso Formation; is that right?
21	A. That's correct.
22	Q. And for purposes of this case, you seek to pool
23	from the top of the Paddock to the base of the Blinebry,
24	right?
25	A. That's correct.

Page 17 And, roughly, what is the distance between your 1 Q. proposed landing depth and the base of the Blinebry, 2 which would be the bottom of where you seek to pool? 3 4 That is roughly 4- or 500 feet. Α. Now, why are you pooling only from the top of 5 0. this pool to the base of the Blinebry? 6 7 For a few reasons, the first being that's Α. where -- that is the interval within the Yeso in which 8 COG holds a common interest. And, secondly, that is the 9 10 productive interval within the Yeso that would contribute hydrocarbons to our proposed well. 11 -12 Is there an interest owner that only owns below Ο. 13 the base of the Tubb? Yes, there is. 14 Α. 15 Q. And which interest owner is that? 16 Α. That is Este, Ltd. 17 Other than Este, do the other interest owners own Α. 18 above the base of the Blinebry? 19 Α. Yes, they do. 20 And they also have some ownership then below the 0. 21 base of the Blinebry, correct? 22 Α. That's correct. 23 But that ownership changes because of the Q. introduction of Este below the base of the Blinebry? 24 25 Α. That's right. That severance.

Q. How did this vertical ownership depth severance
 arise?

So Este, Ltd., used to own, up until 2009, a 3 Α. 4 common ownership within the Yeso Formation. And in 2009, for some arbitrary reason, he assigned out or 5 Este, Ltd., assigned out all of their working interest 6 7 above the base of the Blinebry within Yeso Formation -at that point in time which created the depth severance, 8 which created different ownership within the Yeso 9 Formation. Being owners above, being from the top of 10 the Paddock to the base of the Blinebry, you have 11 100 percent cumulative ownership and then below --12 except now you are introducing a new party with a 13 14 different ownership.

15 Q. Okay. And Este is the one that created this 16 depth severance?

17 A. That's correct.

22

Q. Now, if I go back to our bigger book and I turn to what's been marked as COG Exhibit 4, does this use colors and percentages to describe exactly what you just talked about?

A. Yes, that is correct.

Q. And why don't you explain to us, starting at the top, what the different colors mean? I see a yellow and then I see red with the numbers 1, 2 and 3.

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Page 19 Okay. So this is COG's proposed 200-acre 1 Α. nonstandard spacing unit. That 200-acre nonstandard 2 spacing unit is comprised of three tracts; tract 1 being 3 in yellow, that indicates yellow common ownership 4 throughout the entire Yeso Formation. 5 Tracts 2 and 3 that are indicated in red, those 6 7 are the two tracts in which the depth severance occurs. 8 So let me stop you there. Q. 9 So with a vertical depth severance ownership, it only applies to two of the three tracts that would be 10 involved in this nonstandard spacing unit? 11 12 Yes, that's correct. Α. 13 Q. How have you depicted that depth severance in the lower portion of this exhibit? 14 15 Α. So if you go below that land plat to the far right column, in red indicated, Base of Blinebry to the 16 base of the Yeso. That depicts and shows where Este, 17 Ltd., comes in in tract 2 and tract 3 below the base of 18 the Blinebry, which is not the interval in which COG is 19 20 seeking to pool underneath this application. And then if I go to the left-hand side, is 21 Q. that -- in blue, is that the interval that the company 22 23 seeks to pool? 24 Or I should say "intervals." Q. 25 Α. Yes, that's correct.

1Q. And does that reflect the percentage interest of2the interest owners in that common area of ownership?3A. Yes, it does.4Q. And that would be your proposed spacing and5proration interval horizontally and vertically?6A. That we are seeking to pool under this7application, yes, it is.8Q. Now, prior to the Division hearing in this9matter, did the company provide notice to Este, Ltd.,10that it was seeking to pool only to the base of the11Blinebry?12A. We did.13Q. And did Este appear at the Division hearing or14object to the application?15A. No, they did not.16Q. Has the company subsequently visited with Este17again about pooling only the Paddock and the Blinebry18intervals of this very deep Division-designated pool?19A. Yes, we have.20Q. And if I turn to what has been marked as COG21Exhibit 5, is this an approval letter from Este22supporting this application?23A. Yes, this is a letter of support in COG's24development.25Q. And, again, Este is the only interest owner in		Page 20
 A. Yes, it does. Q. And that would be your proposed spacing and proration interval horizontally and vertically? A. That we are seeking to pool under this application, yes, it is. Q. Now, prior to the Division hearing in this matter, did the company provide notice to Este, Ltd., that it was seeking to pool only to the base of the Blinebry? A. We did. Q. And did Este appear at the Division hearing or object to the application? A. No, they did not. Q. Has the company subsequently visited with Este again about pooling only the Paddock and the Blinebry intervals of this very deep Division-designated pool? A. Yes, we have. Q. And if I turn to what has been marked as COG Exhibit 5, is this an approval letter from Este supporting this application? A. Yes, this is a letter of support in COG's development. 	1	Q. And does that reflect the percentage interest of
 Q. And that would be your proposed spacing and proration interval horizontally and vertically? A. That we are seeking to pool under this application, yes, it is. Q. Now, prior to the Division hearing in this matter, did the company provide notice to Este, Ltd., that it was seeking to pool only to the base of the Blinebry? A. We did. Q. And did Este appear at the Division hearing or object to the application? A. No, they did not. Q. Has the company subsequently visited with Este again about pooling only the Paddock and the Blinebry intervals of this very deep Division-designated pool? A. Yes, we have. Q. And if I turn to what has been marked as COG Exhibit 5, is this an approval letter from Este supporting this application? A. Yes, this is a letter of support in COG's development. 	2	the interest owners in that common area of ownership?
 proration interval horizontally and vertically? A. That we are seeking to pool under this application, yes, it is. Q. Now, prior to the Division hearing in this matter, did the company provide notice to Este, Ltd., that it was seeking to pool only to the base of the Blinebry? A. We did. Q. And did Este appear at the Division hearing or object to the application? A. No, they did not. Q. Has the company subsequently visited with Este again about pooling only the Paddock and the Blinebry intervals of this very deep Division-designated pool? A. Yes, we have. Q. And if I turn to what has been marked as COG Exhibit 5, is this an approval letter from Este supporting this application? A. Yes, this is a letter of support in COG's development. 	3	A. Yes, it does.
 A. That we are seeking to pool under this application, yes, it is. Q. Now, prior to the Division hearing in this matter, did the company provide notice to Este, Ltd., that it was seeking to pool only to the base of the Blinebry? A. We did. Q. And did Este appear at the Division hearing or object to the application? A. No, they did not. Q. Has the company subsequently visited with Este again about pooling only the Paddock and the Blinebry intervals of this very deep Division-designated pool? A. Yes, we have. Q. And if I turn to what has been marked as COG Exhibit 5, is this an approval letter from Este supporting this application? A. Yes, this is a letter of support in COG's development. 	4	Q. And that would be your proposed spacing and
application, yes, it is. Q. Now, prior to the Division hearing in this matter, did the company provide notice to Este, Ltd., that it was seeking to pool only to the base of the Blinebry? A. We did. Q. And did Este appear at the Division hearing or object to the application? A. No, they did not. Q. Has the company subsequently visited with Este again about pooling only the Paddock and the Blinebry intervals of this very deep Division-designated pool? A. Yes, we have. Q. And if I turn to what has been marked as COG Exhibit 5, is this an approval letter from Este supporting this application? A. Yes, this is a letter of support in COG's development.	5	proration interval horizontally and vertically?
 Q. Now, prior to the Division hearing in this matter, did the company provide notice to Este, Ltd., that it was seeking to pool only to the base of the Blinebry? A. We did. Q. And did Este appear at the Division hearing or object to the application? A. No, they did not. Q. Has the company subsequently visited with Este again about pooling only the Paddock and the Blinebry intervals of this very deep Division-designated pool? A. Yes, we have. Q. And if I turn to what has been marked as COG Exhibit 5, is this an approval letter from Este supporting this application? A. Yes, this is a letter of support in COG's development. 	6	A. That we are seeking to pool under this
9 matter, did the company provide notice to Este, Ltd., 10 that it was seeking to pool only to the base of the 11 Blinebry? 12 A. We did. 13 Q. And did Este appear at the Division hearing or 14 object to the application? 15 A. No, they did not. 16 Q. Has the company subsequently visited with Este 17 again about pooling only the Paddock and the Blinebry 18 intervals of this very deep Division-designated pool? 19 A. Yes, we have. 20 Q. And if I turn to what has been marked as COG 21 Exhibit 5, is this an approval letter from Este 22 supporting this application? 23 A. Yes, this is a letter of support in COG's 24 development.	7	application, yes, it is.
10 that it was seeking to pool only to the base of the 11 Blinebry? 12 A. We did. 13 Q. And did Este appear at the Division hearing or 14 object to the application? 15 A. No, they did not. 16 Q. Has the company subsequently visited with Este 17 again about pooling only the Paddock and the Blinebry 18 intervals of this very deep Division-designated pool? 19 A. Yes, we have. 20 Q. And if I turn to what has been marked as COG 21 Exhibit 5, is this an approval letter from Este 22 supporting this application? 23 A. Yes, this is a letter of support in COG's 24 development.	8	Q. Now, prior to the Division hearing in this
Blinebry? A. We did. Q. And did Este appear at the Division hearing or object to the application? A. No, they did not. Q. Has the company subsequently visited with Este again about pooling only the Paddock and the Blinebry intervals of this very deep Division-designated pool? A. Yes, we have. Q. And if I turn to what has been marked as COG Exhibit 5, is this an approval letter from Este supporting this application? A. Yes, this is a letter of support in COG's development.	9	matter, did the company provide notice to Este, Ltd.,
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14 object to the application? 15 A. No, they did not. 16 Q. Has the company subsequently visited with Este 17 again about pooling only the Paddock and the Blinebry 18 intervals of this very deep Division-designated pool? 19 A. Yes, we have. 20 Q. And if I turn to what has been marked as COG 21 Exhibit 5, is this an approval letter from Este 22 supporting this application? 23 A. Yes, this is a letter of support in COG's 24 development.	12	A. We did.
 A. No, they did not. Q. Has the company subsequently visited with Este again about pooling only the Paddock and the Blinebry intervals of this very deep Division-designated pool? A. Yes, we have. Q. And if I turn to what has been marked as COG Exhibit 5, is this an approval letter from Este supporting this application? A. Yes, this is a letter of support in COG's development. 	13	Q. And did Este appear at the Division hearing or
 Q. Has the company subsequently visited with Este again about pooling only the Paddock and the Blinebry intervals of this very deep Division-designated pool? A. Yes, we have. Q. And if I turn to what has been marked as COG Exhibit 5, is this an approval letter from Este supporting this application? A. Yes, this is a letter of support in COG's development. 	14	object to the application?
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A. Yes, this is a letter of support in COG'sdevelopment.	21	Exhibit 5, is this an approval letter from Este
24 development.	2 2	supporting this application?
•	23	A. Yes, this is a letter of support in COG's
25 Q. And, again, Este is the only interest owner in	24	development.
	25	Q. And, again, Este is the only interest owner in

Page 21 this formation that would be excluded from the pooling 1 2 as proposed by Concho, correct? 3 Α. That is correct. 4 Q. Now, the first three paragraphs of this letter roughly relate what you just talked about, right? 5 6 Α. Yes. 7 The difference in ownership. Would you be kind Ο. enough -- this is a little small -- would you be kind 8 9 enough to read out loud the last two paragraphs of this 10 letter. 11 "Este, Ltd, is also the owner of debt severed Α. 12 interest within particular formations or pools throughout New Mexico and will be affected by the 13 14 NMOCD's current position with regards to denial of pooling subsets of a formation. 15 16 "Allowing pooling of subsets of formations or 17 pools, among other things, will protect correlative 18 correlative rights, prevent waste, and inhibit the 19 stranding of reserves. Este, Ltd., is in support of 20 COG's development of the Sneed 9 Fed Com 23H Well as 21 discussed in case 15327. Este, Ltd, understands this 22 letter of support will be used at an upcoming hearing in 23 front of the NMOCC." 24 Now, this is the party that's going to be left 0. 25 out of your proposed pooling application, right?

Page 22

1 A. That is correct.

With respect to the remaining interest owners 2 Ο. 3 here in the Yeso Formation -- and again here we are going to talk about pooling here today -- what is the 4 status of your discussions and efforts to reach a 5 6 voluntary agreement with the remaining interest owners? 7 The remaining interest owners will be Chevron, Α. Devon has currently signed their AFE. 8 Devon and OXY. 9 And both Devon and Chevron were in the final stages of 10 negotiating out our JOA, and both have indicated they 11 will participate in the well. Currently, right now, with budget constraints 12 13 with OXY, they have indicated that they will not participate in the well and we are ongoing negotiations 14 15 of acquiring on interest through a term assignment or 16 farm-out. Are they aware of this pooling application? 17 Q. Yes, they are. 18 Α. Do they have any objection to pooling only a 19 Q. portion of this Division-designated pool? 20 21 Α. No, they do not. 22 If I turn to what has been marked as COG Q. 23 Exhibit 6, is this the well proposal letter that was 24 sent to the working interest owners for this particular 25 well?

Page 23

1	A. Yes, it is.
2	Q. And this letter, this sample letter was actually
3	sent to OXY, correct?
4	A. That's correct.
5	Q. And when this was sent back in February, did it
6	include an AFE for the proposed well?
7	A. Yes, it did.
8	Q. And at the time this was sent in February, does
9	this AFE reflect the cost that the company was incurring
10	for drilling horizontal wells in this area?
11	A. Yes, it does.
12	Q. And does this letter also reflect the overhead
13	and the administrative costs that you proposed and which
14	you are also then seeking under this pooling agreement?
15	A. Yes, it does.
16	Q. And where is that found in this letter?
17	A. So on the AFE cover letter, it is in the middle,
18	about the middle of the page, COG seeking 7,000 a month
19	drilling, 700 a month producing overhead rates.
20	Q. Is that on the first page of Exhibit 6?
21	A. That's correct.
22	Q. Are these overhead rates consistent with what
23	operators are charging for similar wells?
24	A. Yes, they are.
25	Q. Now, we talked about the working interest owners.

Page 24 1 Α. Yes. 2 And in this area, are there other types of 0. 3 interests that the company seeks to pool in its proposed proration unit for purposes of consolidating the 4 5 interest? 6 Α. Yes, there are. If I turn to what has been marked as COG 7 0. 8 Exhibit 7 -- now, this is similar to the type of exhibit 9 we saw before -- right? -- in the sense that in the top in yellow it shows your proposed nonstandard proration 10 unit? 11 Yes, that is correct. 12 Ά. And it, also, then, towards the middle, 13 0. identifies the working interest percentage in that 14 proposed nonstandard spacing unit in the two intervals 15 16 you seek to pool? 17 Α. Correct. All right. And then at the bottom we have 18 Ο. another group of interest owners that need to be pooled 19 in this case; is that correct? 20 Yes, that's correct. 21 Α. 22 I see a list of -- I see a number of names under 0. 23 ORRI; what does that stand for? 24 Those are overriding royalty interest owners. Α. 25 And what's the circumstance there, why do we need Q.

Page 25 to pool those overriding royalty interest owners? 1 In the actual document that created the override, 2 Α. the conveying document, that document lacked pooling 3 language, so that's the reasoning for listing them as 4 5 pool parties underneath this application. And then we have RI; is that royalty interest? 6 0. 7 Royalty interest owners. Α. What's the circumstance there? Why do we need 8 Q. 9 need to pool them? So those are the mineral owners, the lessors from 10 Α. which the leases were granted to working interest 11 12 Those leases actually lacked pooling provisions owners. within their lease as well; hence the reason for pooling 13 14 those royalty interest owners under the application. And then NPRI, what is that? 15 Q. Nonparticipating royalty interest. 16 Α. That's a cost-free interest that is carved out of the mineral 17 interest. And the same reasoning as for the overriding 18 19 royalty interest owners. They don't have pooling language -- their 20 Ο. 21 interest arises out of an instrument that does not have 22 pooling language? 23 Α. That's correct. 24 Q. Now, these are all non-cost-bearing interest, 25 correct?

A. All of these are non-cost-bearing parties.

Pa'ge 26

Q. Then we have a group where you have listed as "Unmarketable Title." What do you mean by that? What is going on there?

5 So we seek to prove the unmarketable title, so Α. the interest owners that we've recognized currently as 6 7 the current record title owners initially had to stem from inception. So over time, say, party A conveyed to 8 party B, party B conveyed to party C, and then, all of a 9 10 sudden, the conveyance from party C ends up in party E, 11 which creates a cloud on title, which creates an unmarketable title situation. So from that point 12 forward, we would pool where the cloud of title was 13 created forward, to protect ourselves. 14

Q. So you go through the chain and you have a gap?
A. There's a gap. Essentially, there's a gap in the
chain of title.

Q. Is that why, for example, if you look through this list, you see, for example, the heirs and devisees of a number of names?

21 A. That's correct.

1

22 Q. These are estates?

23 A. Those are estates.

Q. And by pooling these, going back to the originalinterest in pooling that estate, you seek to cover

Page 27 whatever interest owners may be connected with that 1 2 estate? 3 That is correct. Α. And then the last group here is the record 4 Q. Okav. 5 title owner. That is Linn Energy? That's correct. 6 Α. And, again, that is a non-cost-bearing interest? 7 0. That's correct. 8 Α. 9 0. But you need to bring them in, consolidate their interest for purposes of pooling? 10 Right. So tract 1 is a federal lease. 11 Α. And 12 underneath the federal lease, you've got record title owners and then operating rights owners, operating 13 14 rights being the cost-bearing parties to the well. The record title owner are non-cost-bearing 15 parties to the well, and that's Linn Energy in this 16 17 situation. For purposes of the record here today, did you 18 0. 19 attempt to reach an agreement and get the necessary amendments for all of these different types of interest 20 21 owners? 22 Yes, we did. Α. 23 If I turn, for example, to what has been marked Q. as COG Exhibit No. 8, is this a letter that you sent to 24 the overriding royalty interest owners seeking the 25

Page 28

1 authorization necessary to bring them into the 2 nonstandard spacing unit?

3 A. Yes, it is.

Q. And the remaining overriding royalty interest owners that are listed on Exhibit 7 would be those that did not execute the ratification?

A. That's correct.

7

Q. By the same token, if I turn to what has been marked as COG Exhibit 9, is this -- I should say exhibit numbers 9 and 10, are these the letters that you would send to the royalty interests in the net profit royalty interests who were lacking the pooling language in an effort to get their ratification to the pool?

A. Yes, that's correct. So Exhibit 9 is an actual lease amendment to include pooling language within their lease. And then further on top of that, we also sent a consent to pool letter to those owners, also trying to get their voluntary permission to pool.

Q. And the remaining interest owners that you see listed on Exhibit 7 under royalty interest and net profit royalty interest, are those interest owners that didn't respond or didn't execute the assignments? A. That's right.

Q. And did you also then try to reach out and get the agreement from the record title owner?

Page 29 1 Α. Yes, we did. And is that reflected in COG Exhibit 11? 2 Ο. 3 Α. That's correct, it is. Now, throughout this entire process, where you 4 Ο. 5 are trying to find these interests and understand these 6 various interests, were there certain interest owners that you simply could not locate? 7 8 Α. Yes, there were. 9 Ο. What efforts did the company undertake to locate all these interest owners? 10 Internally and also externally, having our 11 Ά. 12 brokers check county records and then also internal 13 systems on the computer for record searches and name searches to try to locate these owners. 14 Did you also hire outside consultants to assist 15 0. in this effort? 16 17 Α. Yes, we did. 18 0. Okay. And your end result was you had a group of interest owners that you simply could not find an 19 20 address for or try to locate? That's correct. 21 Α. 22 Okay. If I turn to what's been marked as COG Q. Exhibit 12, is this an affidavit of publication in the 23 newspaper in Lea County providing notice of the Division 24 25 hearing in this case by name to each of these interest

	Page 30
1	owners that you could not locate?
2	A. Yes, that is correct.
3	Q. In addition to identifying and providing notice
4	to all of these interest owners, did the company then,
5	because you are creating a nonstandard spacing and
6	proration unit, did you identify all of the lease
7	mineral interests in the 40-acre tracts surrounding your
8	proposed nonstandard spacing and proration unit?
9	A. Yes, we did.
10	Q. And did you include those known lease mineral
11	interest owners in the notice that went out of the
12	Division hearing in this matter?
13	A. Yes, we did.
14	Q. If I turn to what has been marked as COG
15	Exhibit 13, is this the affidavit prepared by my office
16	that was introduced at the Division hearing that
17	provided notice to all of these parties of the Division
18	hearing in this matter?
19	A. Yes, it is.
20	Q. And it actually includes behind it three
21	different letters, correct?
22	A. Right.
23	Q. The first was a letter to all the parties that
24	you seek to pool?
25	A. Yes, that's number one.

Page 31 Which we just went through. 1 Ο. And then the next letter provided notice to all 2 of the offsetting lessees and operators. That would be 3 4 the 40-acre tracts surrounding your proposed nonstandard 5 spacing and proration unit? That is correct. 6 Α. And then the third letter, is that the letter 7 Q. that went out to the interest owner that was going to be 8 9 excluded within the vertical interval by virtue of your pooling application? 10 11 Vertical offset notice, that's correct. Α. 12 Q. And that would be Este? That's correct. 13 Α. 14Q. All right. And then I want to turn now to it, and then we have followed it up with all the green 15 cards, correct? 16 Yes, all the rest of them are just returned green 17 Α. 18 cards. 19 Q. Now I want to turn to a slightly different 20 subject. 21 MR. FELDEWERT: And then we are almost 22 finished with this witness, Mr. Chairman. 23 Ο. I want you to turn to what's been marked as COG 24 Exhibit 14. Is this a close-up of the larger area map 25 showing sections 9 and 10 and your proposed nonstandard

Page 32 spacing and proration unit? 1 Yes, it is. 2 Α. And it shows that you are seeking to extend your 3 0. lateral, horizontal well, into the southwest quarter of 4 the northwest guarter of section 10 that has not been 5 been developed by a vertical well, correct? 6 7 Α. Correct. Does this also then depict how the company 8 Ο. 9 intends to develop the remainder of section 9 and the west half of section 10 that has not previously been 10 developed by vertical wells? 11 12 Α. Yes, it does. And you have done this by utilizing both standup 13 Ο. and lay-down horizontal wells, correct? 14 That's correct. 15 Α. And, actually, one of those wells has already 16 Q. 17 been drilled; that's in the north half of the north half 18 of nine? 19 Right. Α. Did that particular well have the depth severance 20 Ο. 21 ownership issue that we have here? 22 Those are different leases, and they did not have Α. 23 the depth severance. 24 Q. Okay. Now, I want to briefly then go back to what has been marked as COG Exhibit No. 2. And again 25

Page 33

1 this is the larger area map.

When I look at this much larger area, if I am 2 understanding your colors correctly, has all of the 3 4 development in the Yeso Formation in this area been in 5 either the Paddock or the Blinebry intervals of that Yeso Formation? 6 7 Α. Yes, they have. Has there been any development in the lower 8 Ο. 9 intervals of the Tubb or the Drinkard? From my knowledge, no, there's not. 10 Α. 11 Okay. And speaking with the company and its Q. 12 geologist, do you have understanding of why there has been no development in the Tubb and the Drinkard in this 13 14 area? Yes, I have. 15 Α. 16 Q. And what is that? 17 Because the Tubb, frome conversations, is wet, Α. and the Tubb and the Drinkard, combined together, are 18 19 non-hydrocarbon contributing intervals within the Yeso 20 within the Paddock and Blinebry. 21 And do we have a geologist here today that is 0. going to confirm that? 22 23 Yes, we do. Α. Were COG Exhibits 1 through 14, which would 24 Q. 25 include Exhibit 3A, were they prepared by you or

Page 34 compiled under your direction and supervision? 1 A. Yes, they were. 2 3 MR. FELDEWERT: Mr. Examiner, I would move the admission into evidence of COG Exhibits 1 through 4 14, which would include 3A. 5 COMMISSIONER CATANACH: Exhibits 1 through 6 14 and 3A will be admitted. 7 8 MR. FELDEWERT: I'm sorry I said Mr. Examiner. I meant to say Mr. Chairman. 9 10 (COG OPERATING LLC EXHIBITS 1 through 14, 11 including 3A, were offered and admitted.) MR. FELDEWERT: That then, Mr. Chairman, 12 concludes my examination of this witness. 13 14COMMISSIONER CATANACH: Okay. 15 EXAMINATION BY COMMISSIONER PADILLA 16 COMMISSIONER PADILLA: Mr. Johnson, thank you for your time this morning. 17 COMMISSIONER CATANACH: I'm sorry. 18 Mr. Wade, did you have any questions for this witness? 19 20 MR. WADE: We don't have any questions at 21 this point. Thank you. 22 COMMISSIONER CATANACH: Okay. I'm sorry. Go ahead. 23 24 EXAMINATION BY COMMISSIONER PADILLA (resumed) 25 COMMISSIONER PADILLA: Could you tell us a

1 little bit more about your attempts to deal with OXY on 2 this issue.

So, initially, when the well 3 THE WITNESS: 4 proposal was sent out back in February, as soon as the well proposals were sent out, we give them a reasonable 5 6 amount of time, maybe about two weeks, and then we start 7 phone calls and we start e-mailing and we start the following up, initially during our -- you know, on the 8 9 front of our AFE cover letter, just recognizing that they own operating rights and giving them a chance to 10 either participate and/or term assign or farm out their 11 12 interest. And up to this point, currently, right now, 13

And up to this point, currently, right now, we've already had conversations with their landman and their legal, working out details in a farm-out that -to be able to acquire the interest to drill this well. COMMISSIONER PADILLA: So it's moving

18 forward. 19 It's moving forward. THE WITNESS: 20 COMMISSIONER PADILLA: When do you expect 21 that to be, ballpark? 22 THE WITNESS: If there is no other hang-ups 23 between our legal, I am hoping to say probably here 24 within the next three weeks to a month.

25 COMMISSIONER PADILLA: Okay. When you say

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Page 36 that there's no production from the Tubb or the 1 2 Drinkard, are you limiting that statement to what we see 3 on the map in Exhibit 2? 4 THE WITNESS: The Yeso development is Exhibit 2? 5 COMMISSIONER PADILLA: 6 Yes. 7 THE WITNESS: Yes, that is correct. 8 COMMISSIONER PADILLA: That is all I have. 9 Thank you. 10 THE WITNESS: Thanks. 11 COMMISSIONER BALCH: And I don't have any 12 questions. EXAMINATION BY COMMISSIONER CATANACH 13 COMMISSIONER CATANACH: I have a couple. 14 15 Mr. Johnson, what is the extent of the Maljamar-Yeso 16 Pool; is it shown on this map? 17 THE WITNESS: I do not believe the extent of 18 the pool is shown on the map. 19 COMMISSIONER CATANACH: So when you said 20 that there isn't any Tubb, Drinkard production in this area, do you know if there's any Tubb, Drinkard 21 22 production in the Maljamar-Yeso Pool or is it limited to 23 in that area on the map? 24 THE WITNESS: When we reference that there's 25 no production within the the Tubb and the Drinkard

within the Maljamar-Yeso Pool, I feel confident saying 1 that there's not any production within the Tubb and 2 Drinkard within the extent of the aerial view. 3 4 And I think our geologist will be able to 5 testify to that as well. COMMISSIONER CATANACH: Within the aerial 6 7 extent of this map, which may not be the extent of the 8 pool. 9 THE WITNESS: I am talking about the extent that you see in front of you and, then, also, the outer 10 lying boundaries of the Maljamar, West Yeso Pool. 11 12 COMMISSIONER CATANACH: Do you know why those rights may have been severed at that depth by that 13 14 company? 15 THE WITNESS: That is a question we all ask 16 These are things and events that have ourselves. happened for reasons prior to us acquiring the interest. 17 Their arbitrary numbers or depth references that come 18 out of who knows what. 19 20 Somebody had an interest and decided they were going to depth sever it, either at a specific depth 21 or at a specific reference within a formation. But who 22 knows why. And we sit back and try to ask ourselves the 23 24 same question. And there is no rhyme or reason behind 25 that.

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Page 38 COMMISSIONER CATANACH: So at one point, as 1 2 I understand it, Este had rights in the whole interval? Right. Until 2009, when the 3 THE WITNESS: 4 depth severence was created, the entire Yeso Formation had common ownership. And at that point in time in 2009 5 when Este assigned out all of their working interest 6 7 above the base of the Blinebry to another party, that is when the depth severance was created. 8 9 COMMISSIONER CATANACH: Who did they assign it to? 10 11 THE WITNESS: Hawkins Petroleum. And then, 12 subsequently, from Hawkins, we acquired the interest from Hawkins Petroleum. 13 14 COMMISSIONER CATANACH: With regards to the 15 severed interest, is it just in tract 2 or is this in 16 other areas of the Maljamar-Yeso Pool? 17 THE WITNESS: There will be other cases within the Maljamar-Yeso West Pool and among other pools 18 across the New Mexico Shelf, and then also the Delaware 19 20 Basin and all over the place. 21 COMMISSIONER CATANACH: So there are going to be some more cases in the West Maljamar-Yeso Pool? 22 23 THE WITNESS: I would have to look and see 24 on a case-by-case scenario to give you a firm answer on 25 that.

Page 39 COMMISSIONER CATANACH: So, basically, you 1 are saying this problem is not limited to this area; 2 it's extensive across the basin? 3 That is correct. 4 THE WITNESS: COMMISSIONER CATANACH: I think one of the 5 things that we try and do is protect the integrity of a 6 pool. And, you know, it's a complicated thing, pooling 7 8 a portion of a pool. 9 Let me ask you this, if Este is agreed to whatever you are proposing here, couldn't this be taken 10 11 care of in a JOA that Este signs off on? 12 THE WITNESS: In this particular case, Este, Ltd, agreed with the development of COG, so there was 13 no -- there was no further discussion and need to try to 14 15 enter into a JOA. 16 COMMISSIONER CATANACH: I quess what I am 17 asking is can this be done by some kind of land document in future cases where this interest is somehow taken 18 care of contractually instead of bringing these to the 19 20 Division? ·21 THE WITNESS: I know for a fact that there is two main issues with that. And the first is this 22 interest was acquired based upon the interval within the 23 24 Yeso, so economics were ran and that interest acquired based upon the rights that we acquired, and no more 25

1 outside of that interval.

2	And number two is, what you're going to run
3	across is there are going to be owners that are going
4	unlocatable. There are owners that are going to be
5	limited to restricted budgets and development, that may
6	or may not agree to how or what you are trying to
7	propose underneath the JOA or underneath any other type
8	of contractual agreement.
9	And agreeing on an allocation is would be
10	slim to none in most cases.
11	COMMISSIONER CATANACH: So who owns the
12	interest in the Tubb, Drinkard? Does COG own an
13	interest in the Tubb, Drinkard?
14	THE WITNESS: We do have an interest in the
15	Tubb and Drinkard, but it is different than what we own
16	from the Paddock to the base of the Blinebry due to that
17	depth severance.
18	COMMISSIONER CATANACH: With regards to the
19	overrides and oil interest owners, the reason you want
20	to pool those is because there is no pooling clause in
21	the document conveying those interests?
22	THE WITNESS: Yes, that's correct.
23	COMMISSIONER CATANACH: Is that fairly
24	common out here?
25	THE WITNESS: You know, it is about 50/50,

Page 41 1 for the most part, when overrides are created through assignments. There is pooling language within that 2 3 conveying document. And then some that were done back in the day, or even currently, it is just completely 4 left out. 5 6 COMMISSIONER CATANACH: So you were 7 successful in obtaining an agreement from some of the interest owners, some of the older interest owners? 8 9 THE WITNESS: That's correct. And then some 10 of the other ones are either unlocatable or we just 11 never heard back from them at all, even after multiple attempts of trying to contact them. 12 COMMISSIONER CATANACH: And all of these 13 14 parties that are being pooled, all of them were given 15 notice of this hearing? 16 Yes, they were. THE WITNESS: COMMISSIONER CATANACH: Have you run across 17 this in a vertical well that you have drilled in this 18 19 area? I personally have not. 20 THE WITNESS: 21 COMMISSIONER CATANACH: I am just wondering 22 if it would be treated differently for vertical wells as 23 opposed to horizontal wells, would that make any 24 difference as to --I mean, the allocation of 25 THE WITNESS:

interest in the depth severance, above and below where the depth severance is you're still going to have the same issue.

4 COMMISSIONER CATANACH: So within a vertical 5 well, you are still saying that being at the bottom portion of the pool is non-protective, they would still 6 7 be excluded from participating in a vertical well? 8 THE WITNESS: That is correct. 9 COMMISSIONER CATANACH: And the development 10 of section 9 and 10, it appears that you are going to 11 orderly develop what we would consider to be stranded acreage in those two sections, so that should be taken 12

13 care of.

14 THE WITNESS: The whole point behind that slide -- let's see, Exhibit 14 -- was to show COG's 15 16 overall development of section 9 and 10 and to show you guys that there was going to be no stranded acreage. 17 COMMISSIONER CATANACH: Now, with regards to 18 notice to the parties that you noticed in the yellow 19 portion of that which you indicated was COG's acreage, 20 21 did you notify the other working interest owners in that 22 acreage? 23 THE WITNESS: Are you referencing our 24 proposed nonstandard spacing unit or for --

25 COMMISSIONER CATANACH: For the 40-acre

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Page 43 tracts that you noticed around --1 2 THE WITNESS: Surrounding for our 3 nonstandard spacing unit notification, yes, we did. COMMISSIONER CATANACH: The working interest 4 5 owners as well? 6 THE WITNESS: Yes. 7 COMMISSIONER CATANACH: That's all the 8 questions I have. 9 Mr. Wade, do you have anything? 10 MR. WADE: No questions. EXAMINATION BY MR. BRANCARD 11 12 MR. BRANCARD: Two questions on Exhibit 14. The same as Exhibit 2, you indicated that there is a 13 horizontal development just to the north? 14 15 THE WITNESS: That's correct, in the north 16 half, north half of --17 MR. BRANCARD: Is that COG's development? 18 THE WITNESS: That is COG's horizontal well. 19 MR. BRANCARD: Does COG have a Division 20 order creating a nonstandard spacing unit for that well? 21 22 THE WITNESS: Yes, we do. 23 MR. BRANCARD: And does that order encompass 24 the entire Yeso? 25 THE WITNESS: That one does.

Page 44 MR. BRANCARD: Okay. And then you indicated 1 2 you do not know the extent of the Maljamar-Yeso West 3 Pool. Is there a COG witness today who does know the 4 extent of the Maljamar-Yeso West Pool? 5 MR. FELDEWERT: The aerial extent? 6 MR. BRANCARD: Yes. 7 I don't know the aerial MR. BROUGHTON: 8 extent. 9 MR. FELDEWERT: He is going to talk 10 generally about development in the area. 11 MR. BRANCARD: The Chair has asked for 12 someone to define where this pool is that we are talking 13 about, carving out part of this pool, so it might be 14 useful to know where this pool is. 15 MR. FELDEWERT: Let me step back. I think 16 you can go to the publication that's --17 THE WITNESS: I have that. Apologies. 18 Sorry. 19 So you want to know the MR. FELDEWERT: 20 aerial extent of the existing Maljamar-Yeso West Pool? 21 MR. BRANCARD: Right. That was the question 22 the Chair asked. 23 The West Maljamar-Yeso Pool, THE WITNESS: 24 formerly the Maljamar-Paddock Pool, covers Township 17 25 South, Range 32 East.

Page 45 MR. FELDEWERT: Hold on. I'm going to make 1 it easier for you. If you turn to and I'll introduce 2 what's Division order Exhibit 20. So if we go to page 6 3 of that order, under subparagraph M at the bottom, it 4 talks about the West Maljamar-Yeso Pool, by the Division 5 Order, date it was created was 1950, and says, 6 7 "...currently covers the following lands." I would be surprised if that has changed 8 9 much since this order was entered in --10 Right. I did see this order. MR. BRANCARD: 11 And I guess my question is, you look at that order and it indicates Township 17 South, Range 32 East, Section 12 17, 19, 20, 21 and 22. You are asking for an order in 13 14 sections 9 and 10. That's not listed in that order. MR. FELDEWERT: So my guess would be that 15 16 the Division determined when this development occurred 17 that this section was in that pool. 18 THE WITNESS: So what I have from 2012 --19 MR. FELDEWERT: Wait a moment. 20 COMMISSIONER CATANACH: I think in looking at Exhibit 16, Mr. Balch has pointed out that those 21 sections, 19, 20, 21, and 22 are the ones listed in the 22 23 order, so that would be the extent of the pool at this 24 point in time. 25 MR. FELDEWERT: And then you have the

1 one-mile buffer.

COMMISSIONER CATANACH: Yeah, however, with 2 the Division's practice of updating pools and extending 3 4 pools as wells are drilled has been lacking recently and 5 we're trying to resolve that situation. So I would defer -- I would think that if -- were these wells 6 7 permitted in that pool --THE WITNESS: Yes, they were. I've got --8 9 under Order R-13623 of October 1, 2012, defining the West Maljamar-Yeso Pool in Township 17 South, Range 32 10 East, encompassing the east half of section 9 and the 11 12 west half of section 10, among sections 16, 17, 18, 19, 20, 21, 22, and the northeast quarter of section 30. 13 COMMISSIONER CATANACH: So it was extended? 14 15 THE WITNESS: Yes, it was. COMMISSIONER CATANACH: And what was that 16 17 order again? THE WITNESS: Order R-13623. 18 19 COMMISSIONER BALCH: So on Exhibit 16, you 20 could outline the current extent of the pool? THE WITNESS: Let's see. Yes. I believe by 21 22 that reference that you could. 23 MR. FELDEWERT: And Mr. Chairman, just for 24 clarification, the order that he just read from, it 25 turns out to be an application by the Division for an

Page 47 order recreating, redesignating, and extending 1 horizontal limits of certain pools; it's September 10, 2 2012. So at least there was some expansion done by the 3 Division in 2012. 4 5 COMMISSIONER CATANACH: Do you have a copy of that order, Mr. Feldewert? 6 7 MR. FELDEWERT: I have a copy that's all 8 marked up. 9 COMMISSIONER CATANACH: I am curious, because did that order also extend the vertical limits 10 of the West Maljamar-Yeso? 11 12 MR. FELDEWERT: No. Just the -- you could take a look at this if you would like. If you look at 13 14 Order R-27, which is referenced in the paragraph, it included the entire Yeso Formation, so it has included 15 the entire Yeso Formation since 1950. 16 17 MR. FELDEWERT: So to, perhaps, address one of the questions. Exhibit No. 2 which is -- actually 18 19 the designation of the West Maljamar-Yeso Pool would extend a little further south of the acreage that is 20 shown on Exhibit 2, to include 19, 20, 21, 22, according 21 to -- roughly. So it would take another area south, 22 23 some more sections to the south. 24 COMMISSIONER CATANACH: Okay. That clears 25 it up. Any other questions at this time?

	Page 48
1	(No response.)
2	COMMISSIONER CATANACH: Anything further?
3	MR. FELDEWERT: I do have one additional
4	follow-up if I may.
5	REDIRECT EXAMINATION
6	BY MR. FELDEWERT:
7	Q. Would you turn, Mr. Johnson, to actually, I
8	will tell you what, we can stay on COG Exhibit 2.
9	A. Okay.
10	Q. It was the question about the creation of the
11	nonstandard spacing and proration unit for that well in
12	the north half of the north half of 9; do you see that?
13	A. I do see that.
14	Q. You mentioned that in creating that nonstandard
15	spacing and proration unit, you pooled the entire Yeso
16	Formation, the entire pool?
17	A. Yes.
18	Q. First off, did you have the depths ownership
19	severance issue that you have in this case?
20	A. No, we did not. They are separate leases within
21	that nonstandard spacing unit.
22	Q. So was the ownership common from top of the Yeso
23	Formation to the bottom?
24	A. The ownership was common, yes.
25	Q. So you didn't have the correlative rights issue

Page 49 that you have in this case that requires a pooling of 1 only a portion of the pool? 2 That's correct. 3 Α. And in the absence of having the divided 4 Ο. ownership here, would you go ahead and pool the entire 5 6 Yeso Formation because it would be common ownership and 7 wouldn't have the correlative rights issue? 8 In the absence of the depth severance, we would Α. 9 pool the entire Yeso Formation. So really what is driving this is the correlative 10 0. rights issue in the depth severance? 11 12 Α. That's correct. MR. FELDEWERT: All right. 13. FURTHER EXAMINATION BY COMMISSIONER CATANACH 14 15 COMMISSIONER CATANACH: Let me ask just one You may not have an opinion on this. 16 question. 17 Is there a possibility of contracting the West Maljamar-Yeso Pool to exclude the Tubb and the 18 19 Drinkard and would that affect any existing interest 20 owners in the pool? 21 THE WITNESS: I would have to actually look at it in more detail to be able to give you a correct 22 23 answer on that. 24 COMMISSIONER CATANACH: But I think you testified that you are not sure whether this severance 25

Page 50 exists in other areas of the pool at this point or do 1 2 you know? 3 THE WITNESS: No. As stated previously, I would have to look and see to give you a concise answer 4 5 if it does exist within the remaining portion of the 6 pool. 7 COMMISSIONER CATANACH: Okay. Thank you. MR. FELDEWERT: We will call our next 8 9 witness. HARVIN L. BROUGHTON 10 having been first duly sworn, was examined and testified 11 12 as follows: DIRECT EXAMINATION 13 14 BY MR. FELDEWERT: 15 Would you please state your name, identify by Q. 16 whom you're employed and in what capacity. 17 Α. My name is Harvin Broughton. I am the lead geologist for the New Mexico Shelf Team for Concho 18 19 Resources or COG Operating LLC. And have you, Mr. Broughton, previously testified 20 Q. 21 before the Division as an expert in petroleum geology? Yes, I have. 22 Α. 23 And have you also had the opportunity to Q. 24 previously testify before the Commission as an expert in 25 petroleum geology?

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A. I have not in front of the Commission.

2 Q. You have not?

3 A. I have not.

1

Q. Would you please outline your educationalbackground for us please.

A. I received in 1983 a bachelor of science degree
in petroleum engineering from Oklahoma State University.
At such time I went to work for Schlumberger Oil Field
Services, where I worked for 25 years in numerous
positions of increasing responsibility.

I went back to school during that time, and to the University of Texas of the Permian Basin. Worked at night for a few years and received my master of science in geology.

At such time I went to work for Concho Resources, which was basically seven years ago. So I have been with Concho for seven years all on this particular project or asset team, starting out as a senior geologist and in the last two and a half years as the lead geologist for that team.

21 Q. What year did you get your master's?

22 A. 2010.

23

Q. And you mentioned on the Northwest Shelf Team;

24 that is in the Permian Basin in New Mexico?

25 A. Yes. That's the northwest shelf of the Delaware

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1 Basin specifically.

Q. Are you a member of any professional associationsor affiliations?

A. Yes, I am. I am a member of the AAPG. I am a
member of the Southwest Section AAPG. I am a member of
the West Texas Geological Society, of the Society of
Petroleum Engineers, Roswell Geological Society, North
Texas Geological Society --

9 Q. Blah-blah-blah.

10 A. Blah-blah-blah-blah.

Q. How long have you been a member of the AAPG?
A. I have been an associate member and member for
probably 15 years. I mean, I am not exactly sure, but
quite a while.

15 Q. Are you familiar with the application filed in 16 this case?

17 A. Yes, I am.

18 Q. And have you conducted a geologic study of the 19 lands that are the subject of this application?

20 A. Yes, I have.

25

21 MR. FELDEWERT: I would tender Mr. Broughton 22 as an expert witness in petroleum geology.

23 COMMISSIONER CATANACH: Mr. Broughton is so 24 qualified.

Q. I want to go back, Mr. Broughton, to COG

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1	Exhibit 14. There is one point in there that I want to
2	address.
3	A. Okay.
4	Q. This depicts the company's overall development
5	plan for sections 9 and 10?
6	A. Yes, it does.
7	Q. And you assisted in developing this plan?
8	A. I did assist, myself and my team.
9	Q. And you and your team put this together for
10	purposes of not, quote, unquote, "stranding" any
11	acreage?
12	A. That is correct.
13	Q. And you intend to use both horizontal lay-down
14	and standup wells to develop this acreage that has not
15	previously been developed by vertical wells; is that
16	correct?
17	A. Yes, that is correct.
18	Q. And then if I go back to Exhibit No. 2, it
19	appears if I am reading this correctly that the
20	company has drilled not many but at least some standup
21	and lay-down horizontal wells in this general area; is
22	that correct?
23	A. That is correct, yes.
24	Q. Based on the available information, in your
25	opinion, does the orientation of the horizontal wells in

Page 54 the Yeso Formation in this particular area have any real 1 impact on the ability of the wells to develop and drain 2 3 the reserves? No, we have not noticed any discernible 4 Α. difference. I mean it's still early, but we have not 5 noticed any discernible difference between standup and 6 lay-down horizontals. 7 And if I look at -- if I look then at our 8 Ο. 9 substitute Exhibit 3A --Α. Yes. 10 And does Exhibit 3A accurately reflect your 11 Q. 12 landing depth for this well at 6,400 feet? Yes, it does. 13 Α. 14 Q. And did you assist in choosing that landing 15 depth, you and your team? Yes, I was involved in the selection of that 16 Α. 17 depth. It shows that your -- what? -- over 450 feet from 18 Ο. 19 the depth severance point which is at the base of the Blinebry interval? 20 21 Α. That is correct, yes. What is the general lithology of the -- let's 22 0. 23 start first with the Blinebry? 24 The Blinebry is predominantly a carbonate Α. reservoir, more specifically, dolomite, dolostone, 25

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you'll hear the term used, with mier silt component, 1 silica clastic, and a hydride component also -- that's 2 predominantly dolomite. 3 And does that translate to high or low porosity 4 Ο. 5 and permeability?

It is usually what we would call loosely a type 6 Α. formation, which generally means low porosity and even 7 more specifically low permeability. 8

9 0. If I then turn to what's been marked as COG Exhibit 15, this shows -- is this an accurate reflection 10 of the New Mexico Shelf? 11

The stratigraphic column, yes, sir. 12 Α. This is a stratigraphic column of the Northwest Shelf of the 13 Delaware Basin. 14

And it shows the four distinctive intervals that 15 Ο. 16 comprise the Yeso Formation?

17 Α. Yes, those are the four sub-members of the Yeso. And it shows the overall thickness of this 18 0. 19 formation as being 1,500 feet?

20 Α. That is an approximation, but, yes.

21 And it identifies the general lithology of the 0. various descriptions. How does that basically break 22 In other words, how does the Blinebry, for 23

out?

24 example, compare with the Tubb?

Okay. The Paddock and Blinebry are both 25 Α.

essentially dolomite, like I described before. The Tubb
 is a sandstone or siltstone.

Really the distinguishing feature between a sand and a silt is just grain size. And we believe that is more of a silt. So it is a low permeability -- lower permeability siltstone.

7 And then the Drinkard is -- you go back into more 8 carbonate material. But it does have a sand and I 9 believe even an anhydrite component.

Q. And then focusing on the Blinebry member where you seek to land your well, in your opinion does this entire interval generally extend across the surface acreage that's at issue in this application?

A. Yes, it does.

14

Q. If I turn to what has been marked as COG Exhibit 16, is this a structure map that you have developed for this area?

A. Yes. It is a structure map across the general area, an expanded view. The 200-foot contour lines show a gradual or gently dipping to the east, east, southeast across this entire interval.

The tighter contours that run from the left to the right are indicative of the shelf edge, so that is where you get the name Northwest Shelf. To the south, you have steeply dipping into the Delaware Basin.

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Page 57 Okav. And you show in here outlined in blue the 1 Ο. 2 proposed nonstandard spacing and proration unit? 3 Α. Yes. The Sneed 23H is shown in the blue box 4 there. With respect to the structure in this area, do 5 Ο. 6 you see any faultings or pinch-outs or any other 7 geologic impediments to developing this acreage using 8 horizontal wells? No, we do not. 9 Α. 10 Did you prepare a cross section of the area? Ο. 11 Α. I did. Yes. If you turn to what has been marked as COG 12 0. Exhibit 17. First off, does that identify the wells 13 that you utilized in developing your cross section of 14 sections 9 and -- of this area? 15 16 Α. Yes. If you will notice, there is a line of 17 vertical wells with the blue and red dot symbols 18 indicating that they're Yeso wells, combo Paddock, 19 Blinebry. And there's three green dots, which are 20 representative of the three wells that are the cross section that you'll see next. 21 22 Why did you choose those three wells? Q. 23 Α. I chose those three wells because they are along the strike or along the azimuth of the wellbore. 24 Thev 25 go deep enough to show what we are trying to show. And

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1	they had the open hole logs that I needed to demonstrate
2	the wet nature of the Tubb.
3	Q. And then if I continue on to COG Exhibit No. 18,
4	is this the cross section A to A Prime that follows
5	those three wells?
6	A. Yes, it is.
7	Q. I'm sorry. Exhibit 18
8	A. Exhibit 18A.
9	Q. Let me step back.
10	If I go to COG Exhibit 18, that has an incorrect
11	description of the landing depth; is that right?
12	A. It does. It has 6,450 and the actual landing
13	depth will be 6,400.
14	Q. So as a result, have we substituted for the
15.	Commission here today Exhibit 18A?
16	A. Yes, we have.
17	Q. And that is in the separate packet?
18	A. Yes, it is.
19	MR. FELDEWERT: Mr. Chair and members of the
20	Commission, for purpose of this exhibit, we have a
21	smaller version in the front and in the sleeve in the
22	back is a much larger version that you could pull out if
23	you wanted to.
24	Q. And other than identifying the landing depth, is
25	there any difference between Exhibit 18 and

1 Exhibit 18A?

2

A. No other differences.

Q. Okay. So would you please identify how you have described the various intervals here and then explain to us what this cross section shows.

A. Okay. Let's start, if you would, from left to right. So we've identified on the left the Glorieta --8 this is the red text over there -- the Glorieta.

9 And you will notice two depths there. One of 10 them is the top of the Glorieta on the log on the left. 11 The second depth, which is 5,473, is the top of the 12 Glorieta on the log on the right.

13 So this is to demonstrate the structural trending 14 downward to the east that you'll -- it was noted on our 15 contour map.

And you will see the same thing for the Paddock. The Paddock is in the green band that stretches across all three of those logs. And then the Blinebry we've coded in a light blue, that goes all the way across.

And, then, down at the bottom is the Tubb, which is shown in a kind of a yellow color.

The horizontal red lines indicate what we are picking as the top of those formations.

And, then, of course, you will see the landing depth indicated by 6,400 feet.

Page 60 These are open hole logs run by Schlumberger on 1 these wells when they were initially drilled. 2 The left tract is the gamma ray. The middle 3 tract in blue -- and I am just talking about the log on 4 the left -- is the water saturation. And then there is 5 a porosity fluids tract and then there's a lithology 6 7 tract in a kind of a dark blue color that shows the dolomite coding. 8 Mr. Broughton, having reviewed this, in your 9 0. opinion does the targeted interval here, which is the 10 11 very tight Blinebry dolomite, does that extend across, 12 generally extend across the acreage that's at issue 13 here? 14 Α. Yes, it does. 15 And is it continuous across that acreage? Q. Yes, it is. 16 Α. In your opinion, is a horizontal well across that 17 Q. acreage -- will the spacing units that are involved, 18 19 40-acre tracts, will they contribute more or less equally to the production from that wellbore across the 20 21 the Blinebry? Yes, they will. 22 Α. I see your landing depth here in the Blinebry. 23 Q. And then this pool actually starts at the top of the 24 25 Paddock, correct?

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1	Α.	That's correct, yes.
2	Q.	This Division-designated pool?
3	Α.	Yes.
4	Q.	Will the Blinebry well develop?
5	A.	It will not.
6	Q.	If the company determines that it's prudent to
7	develo	p the Paddock, will it be required to drill an
8	additi	onal well and then in the Paddock?
9	A.	Yes. We would land a horizontal well in the
10	Paddoc	k interval unique to what we're planning to do in
11	the Bl	inebry.
12	Q.	And is that because of the thickness and the
13	tight :	nature of these reservoirs?
14	Α.	It's because of two things, the thickness and
15	then t	he difference in porosity and permeability in the
16	Paddoc	k. It is a slightly different animal than the
17	Blineb	ry.
18	Q.	And then focusing on the lower interval at the
19	Tubb,	which is where the depth severance point starts
20	Α.	Yes.
21	Q.	at the top of the Tubb, I take it that there
22	is ove	r 450 of this type dolomite between the landing
23	area a	nd the base of the Blinebry where this ownership
24	change	s?
25	Α.	Yes, a little over 400 feet.

Page 62 Is there any evidence of natural fractures in 1 0. this area that would connect the Tubb to the Blinebry? 2 No, there is no evidence that would connect the 3 · A. 4 two. 5 What is the nature of the Tubb interval in this Q. 6 particular area? The Tubb is a siltstone, as I mentioned before, 7 Α. believed to be low permeability. But as I am 8 9 demonstrating on my logs here, it is calculating to be 10 wet or only water bearing. 11 Okay. I want to get to that. But before I get 0. there, just so I know, how thick is this Tubb interval? 12 In this general area, it is roughly 100 feet 13 Α. 14 thick. It varies slightly but it is roughly 100 feet thick. 15 And does it have low permeability? 16 Q. 17 Α. It has low permeability, yes. 18 And in locating its wells here to develop the Ο. 19 Blinebry, you were involved in that effort, correct? 20 Yes, I was. Α. 21 And did the company attempt to locate its Q. Blinebry wells in a fashion to avoid production from 22 23 what you describe as the wet Tubb interval? We would definitely seek to avoid involving 24 Α. Yes. the Tubb in our well. 25

1 Okay. And you mention that it's wet and 0. 2 nonproductive? That is correct, yes, sir. 3 Α. 4 0. If I turn to what has been marked as COG Exhibit 19, is this a portion of the cross section of 5 the CO on Exhibit No. 18? 6 This is a blow-up interval from the log on 7 Α. Yes. your far left or the westernmost log. So I've gone in 8 9 and blown up the interval of interest. 10 So I have shown the bottom part of the Blinebry, and then you have a horizontal red line which is the top 11 of the Tubb and then there is another horizontal line at 12 the very base of the graphic there that's the base of 13 the Tubb. 14And you show that Tubb interval to be -- what? --15 0. roughly 100 feet thick? 16 17 It is very close to 100 feet thick in this Α. particular well, yes. 18 Q. And why don't you discuss with us what it shows 19 with respect to water saturation and how that's 20 calculated. 21 22 If you look across the top of my graphic, Α. Okav. the second track there, there's an SW, and it goes from 23 24 100 percent to zero percent, and that's water 25 saturation.

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And you will notice as you are coming down through the Blinebry, that blue curve is down in the 40 percent or even lower range. When you get to the top 4 of the Tubb, there is a bulk shift in the water 5 saturation up to A plus -- I mean, it's even getting to 6 100 percent. And that's what we -- would trigger our 7 belief that it's water.

8 And I have coded in our graphics over there, in 9 the porosity tract, that you have of six to eight 10 percent porosity, but that porosity is primarily filled 11 with water.

12 Q. And is there a calculation that's utilized by 13 people such as yourself to determine the water 14 saturation?

A. Yes. This particular model, this particular petrophysical model, uses Archie's Water Saturation, which relates porosity to the resistivity, part of the open hole logging process and why I picked these particular logs to show you today.

Q. And having looked at this, in your opinion is theTubb productive of hydrocarbons?

A. It is not productive of hydrocarbons in myopinion.

Q. Okay. I want to turn to our last exhibit, which is COG Exhibit No. 20. And this is order No. R-13382-E,

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1	which was entered by the Division in September of 2011.
2	Do you recall this case, Mr. Broughton?
3	A. Yes, I do.
4	Q. And did you testify in this case?
5	A. I did testify in this case.
6	Q. And without going into all the nuances, one of
7	the purposes of this case was to examine the various
8	Yeso pools in an area of Lea and Eddy Counties; is that
9	correct?
10	A. Yes, that is correct.
11	Q. And one of the pools that was involved was
12	actually the pool here, the West Maljamar-Yeso Pool?
13	A. It was involved, yes.
14	Q. I want you to turn to page 10 of that order. And
15	while we are going there, Mr. Broughton, there were a
16	number of parties involved in this case; is that
17	correct?
18	A. Yes.
19	Q. There was Concho and there was Hudson/Burnett?
20	A. Yes. Burnett/Hudson.
21	Q. And the various parties presented evidence?
22	A. They did, yes.
23	Q. And if I look at page 10 of this order, it begins
24	to describe in the middle the evidence that was
25	presented by Concho?

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		Page 66
1	A. Yes.	
2	Q. And if I look at paragraph 25,	does that describe
3	the evidence that the company present	ed on the Yeso
4	Formation in general?	
5	A. Yes, it does. I would agree w	ith that.
6	Q. And that's information you wou	ld have
7	represented?	
8	A. I would have presented that, y	es.
9	Q. And you discussed exactly what	you did today, the
10	low permeability, the low porosity of	this formation?
11	A. That is correct, yes, sir.	
12	Q. And if I go to page 13, and th	is begins to
13	describe the evidence that was presen	ted by
14	Burnett/Hudson at that time, correct?	
15	A. That is correct, yes.	
16	Q. And I want you to read to your	self paragraph 50
17	if you will, please.	
18	A. Okay. (Witness complies.)	
19	I would agree with that commen	t, yes.
20	Q. I want to break it out a littl	e bit. It talks
21	about the productive porosity exists	in strings in the
22	Blinebry and Paddock members of this	Yeso Formation?
23	A. Yes, it does.	
24	Q. And you agree with that?	
25	A. I do agree with that, yes, sir	

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1	Q. With respect to one of the tight strings in
2	Blinebry, is that what you're trying to target with the
3	company's horizontal well in Blinebry?
4	A. Yes. The horizontal wells connect up the thin
5	compartments of porosity and permeability within the
6	Blinebry, so yes.
7	Q. Now, this area that they were examining and
8	presented evidence on included Lea and Eddy Counties?
9	A. It was right along the county line actually.
10	Q. And various pools?
11	A. Yes.
12	Q. Various Yeso pools?
13	A. Yes.
14	Q. And one of the observations that they make here
15	is that the I am looking at the last part of that
16	paragraph "The Tubb and the Drinkard members of the
17	Yeso Formation below the Blinebry are continuous through
18	the area but are rarely productive"; do you agree with
19	that statement?
20	A. I would agree with that statement, yes, sir.
21	Q. And with respect to the area that's actually the
22	subject of this application, which is a little smaller
23	area
24	A. Yes.
25	Q. In this particular area, do you have any evidence

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Page 68 to indicate that the -- to disagree with -- do you have 1 evidence to indicate that the Tubb or the Drinkard are 2 going to be productive in this area? 3 4 Α. I've never seen anything indicating the Tubb or Drinkard would be productive in this area. 5 Then if I turn to what has been marked as 6 Q. Okay. Let's go to page 16 of this Division 7 as -- sorry. order -- I'm sorry. Let's go to page 16 of this 8 9 Division order which has been marked as Exhibit 20. Now these are the Division's conclusions having 10 received all of that evidence in that case; is that 11 12 right? 13 I believe so, yes. Α. I want you to read to yourself paragraphs 71 and 14 Q. 72. 15 16 Α. (Witness complies.) Okay. 17 And do you agree with these statements? Q. I do, yes, sir. 18 Α. It points out that the Blinebry and the Tubb 19 Q. 20 intervals, these productive intervals are very tight --21 Α. That is correct, sir. 22 And very low porosity? 0. 23 Α. Low porosity and low permeability, yes. And isn't it true, Mr. Broughton, that the 24 0. Division found that these intervals were so tight that 25

	Page 69
1	it would require essentially ten-acre spacing for
2	vertical well development?
3	A. I believe it does. Concho is developing our
4	verticals on ten-acre spacing, yes.
5	Q. If you go to page 18 of this order, paragraph 83,
6	does that confirm that the Division found that ten-acre
7	spacing in this very tight interval was necessary to not
8	cause waste and to protect correlative rights?
9	A. Yes, sir.
10	Q. Okay. Are you familiar, Mr. Broughton, with the
11	general meaning of correlative rights?
12	A. Generally, yes.
13	Q. Let's go then back to page 16. And I want you to
14	look at the bottom of page 16, paragraph 75.
15	A. Okay.
16	Q. And it fortunately quotes the definition of
17	correlative rights. Would you look at that for me,
18	please?
19	A. I will, yes. (Witness complies.) Okay.
20	Q. Now, it essentially means that you that the
21	Division and the Commission is tasked with insuring that
22	owners' mineral interests in New Mexico receive their
23	just and fair share of the minerals underlying their
24	acreage, correct?
25	A. That is the way I understood it.

Page 70 That's the way you understand it? 1 0. 2 That's the way I understand it, yes. Α. 3 In your opinion, is it necessary, because of the 0. unique circumstances we have out here, to pool only a 4 portion of this pool, including the common area of 5 ownership, involving the Paddock and Blinebry to protect 6 the correlative rights of those interest owners? 7 Yes, I believe that is correct. 8 Α. 9 0. And in your opinion, will the acreage of the interval that Este owns in it, meaning the Tubb or the 10 11 Drinkard, will they contribute any hydrocarbons to this 12 proposed well? Not in my opinion. No, they won't. 13 Α. 14 In your opinion, should Este have to pay their Q. share of the costs in this well? 15 16 Α. No. 17 And in your opinion, should the interest owners. Ο. in the Blinebry and the Paddock, where you have common 18 19 ownership, should they have to share their production with Este? 20 I don't believe so. 21 Α. And in your opinion, if that's enforced here, is 22 Q. 23 that going to violate the correlative rights of COG and 24 the other interest owners in that common area of 25 ownership?

Page 71 That is the way I would understand it, yes. 1 Α. In your opinion, is the granting of this 2 Ο. application in the best interests of conservation and 3 the prevention of waste and the protection of 4 correlative rights? 5 6 Α. Yes, it is. Mr. Broughton, were COG Exhibits 15 through 19 7 Q. prepared by you or compiled under your direction and 8 9 supervision? 10 A. Yes, they were. 11 MR. FELDEWERT: Mr. Chairman, I would move the admission into evidence of COG Exhibits 15 12 through 20, which includes a copy of the Division's 13 14 order. 15 COMMISSIONER CATANACH: Exhibits 15 through 20 will be admitted. 16 17 (COG OPERATING LLC EXHIBITS 15 through 20 were offered and admitted.) 18 19 MR. FELDEWERT: And that concludes my examination of this witness. 20 21 COMMISSIONER CATANACH: Mr. Wade, do you 22 have any questions? 23 MR. WADE: No questions. 24 COMMISSIONER BALCH: I just have a couple of 25 questions.

Page 72 EXAMINATION BY COMMISSIONER BALCH 1 2 COMMISSIONER BALCH: Referring to 3 Exhibit 18A, your cross section, it looks like you have a possible production about 1,000 feet thick that starts 4 in the bottom 20 percent of the Blinebry -- I'm sorry 5 the Paddock and goes through the Blinebry. 6 THE WITNESS: Could you start again. 7 COMMISSIONER BALCH: Sure. It looks like 8 9 you have about 1,000 feet between the non-wet part of the Paddock and, say, around 5,800 feet or so in the 10 Branex Federal 10 well --11 12 THE WITNESS: Uh-huh. 13 COMMISSIONER BALCH: -- down to about 6,800 feet, say around 1,000 feet of vertical extent that is 14 not overly wet and could produce hydrocarbons if you hit 15 16 the (inaudible). 17 THE WITNESS: Yes. 18 COMMISSIONER BALCH: And that seems to carry across the area even though you're --19 20 THE WITNESS: It is pretty consistent, yes. 21 COMMISSIONER BALCH: Your landing depth of 22 6,400 feet, do you know what the expected fracture stimulation or frac length is going to be on these wells 23 24 or what they are targeting? 25 THE WITNESS: Well, I don't know what the

Page 73 1 lengths are going to be. This is the first upper Blinebry well we would have drilled in this area. 2 And 3 so I really don't know that. I think that would be evaluated after we 4 drill the well. And the folks who do that would 5 6 evaluate that. COMMISSIONER BALCH: It looks like you are 7 8 not exactly centered; you are a little down from center on the possible productive zone that includes the 9 Paddock. 10 11 THE WITNESS: Just slightly, yes. COMMISSIONER BALCH: If your fractures went 12 up 300 feet in each direction -- just throwing that out 13 there. Don't know what it's going to do -- that would 14 keep you safe from the water in the Tubb and the water 15 in the Paddock, but it might leave a little bit of the 16 17 Paddock unproducible with a second lateral, because you would then interfere with the fractures on the first 18 19 horizontal. 20 THE WITNESS: So you are saying if the fracture goes up 300 feet? 21 22 COMMISSIONER BALCH: Yes. 23 THE WITNESS: That's not going to get to the 24 Paddock. 25 COMMISSIONER BALCH: Right.

Page 74 THE WITNESS: So I guess I don't understand 1 2 your question. I'm sorry. COMMISSIONER BALCH: You alluded that there 3 may be a second horizontal put in to make sure that none 4 of the potential pay is stranded. 5 6 THE WITNESS: You're talking about a lateral 7 in the Paddock Formation? 8 COMMISSIONER BALCH: Closer to the Paddock. 9 I don't think you're going to put it in the Paddock 10 because only the bottom 20 percent of it is probably going to be producible. The rest of it is going to be 11 too wet, right? 12 13 THE WITNESS: In the Paddock? No. We would land the well in the 5,700 to 5,800 foot range. 14 And it will make some water, for sure, but it will make a lot 15 of oil. 16 17 COMMISSIONER BALCH: All right. 18 THE WITNESS: I mean, if I were picking a 19 landing depth for a Paddock well, it would be in the 20 fifty-seven-fifty range, 5,800 feet. And, yes, sir, it 21 will make some water. But it will make oil. 22 COMMISSIONER BALCH: So there's more oil up there than there is in the Tubb? 23 24 THE WITNESS: Well, there's higher porosity, 25 so yes. I mean, there's more storativity, I guess, if

Page 75 you want to call it that. There is more room for the 1 2 oil to live in that rock. 3 COMMISSIONER BALCH: Thank you. THE WITNESS: Uh-huh. 4 COMMISSIONER CATANACH: Go ahead. 5 EXAMINATION BY COMMISSIONER PADILLA 6 7 COMMISSIONER PADILLA: Mr. Broughton, thank 8 you for your time. I have a few questions for you. THE WITNESS: 9 Okay. 10 COMMISSIONER PADILLA: The lay-down, 11 stand-up difference here, you said that this is early on that you hadn't seen any major difference between those? 12 THE WITNESS: No. 13 14 COMMISSIONER PADILLA: How many have you What are you basing that assumption on? 15 drilled? 16 THE WITNESS: Let me get to the exhibit that will address that. I think that might be Exhibit 2. 17 18 Exhibit 2, you will notice we have -- we have 1, 2, 3, 4, 5 stand-ups and then we just have the 19 20 one lay-down. So really there's one versus five. But the Sneed Well there that's east to west 21 is a good economic well. And from -- I mean, it's a 22 very new well. Well, they are all very new wells. But 23 there is no discernible, you know, one's way better than 24 25 the other.

Page 76 COMMISSIONER PADILLA: And the Flathead and 1 the Panhead are the comparison stand-ups. Do those have 2 3 the same target depth, more or less? THE WITNESS: Yes, more or less, similar 4 5 target depth. The red dots indicate that they're Paddock wells, so those wells were landed in the Paddock 6 Formation as is that Sneed well. 7 8 COMMISSIONER PADILLA: Okay. 9 THE WITNESS: So those are all landed --COMMISSIONER PADILLA: A little higher? 10 11 THE WITNESS: In the upper part, in 12 the Paddock Formation, in the upper, higher porosity 13 part. So those are all -- and the landing depths on those are going to be very similar. I don't know if 14 they are exactly the same, but they are going to be very 15 similar. 16 17 COMMISSIONER PADILLA: Do you attribute that 18 to the fact that you don't have a lot of -- once you get over to section 12 and 13, I notice that that's where it 19 20 is really starting to dip, if at all. 21 Do you attribute that to the relatively 22 stable geology here, that you don't see a lot of natural 23 fracturing, the basic fact that the stand-ups and the 24 lay-downs are given in both? 25 THE WITNESS: I don't have a real good

Page 77 explanation for why they are the same. The principal 1 stress direction in this area, roughly, is 2 northwest-southeast in general, which would let you 3 drill a north-south or east-west well based on that 4 5 particular factor. COMMISSIONER PADILLA: So that remains to be 6 7 seen? It does remain to be seen. THE WITNESS: 8 And we are keen to watch that type of information. But 9 what we've seen right now is we don't believe there is 10 any difference. 11 12 COMMISSIONER PADILLA: Okay. Based on Exhibit 19, I mean, it looks like you have porosities as 13 14 low as just a couple of percentage points. Is that kind of what you are seeing out there -- and maybe up to 15 8 or 9? 16 THE WITNESS: You have some streaks that are 17 But, in general, the porosity in the entire 18 higher. 19 Blinebry interval is fairly low. It ranges from 2 to, you know, 4 percent in general and then there's streaks 20 21 that obviously go a little bit higher than that. COMMISSIONER PADILLA: And going up into the 22 23 Paddock, you'd see what kind of porosity? 24 THE WITNESS: The Paddock is a little bit 25 The Paddock -- and I'm just looking at one of better.

Page 78 the logs here -- it has streaks in the 10, 12, 14 1 percent range. So it's thinner but it has a higher 2 porosity. The key to the Blinebry is that it's roughly 3 1,000 feet thick. It is low porosity, low permeability, 4 but it is very thick. 5 6 COMMISSIONER PADILLA: Okay. The Tubb, according to what I can see on some of these logs, you 7 said it's about 100 feet. Does that mean, for 8 example -- Exhibit 19, does that mean that you've cut 9 off some of it there? 10 11 THE WITNESS: No. That is the actual base 12 of the Tubb. That red line across the bottom -- I cut this graphic off just so I could expand it as much as I 13 But that is the base of the Tubb right there. 14could. COMMISSIONER PADILLA: So really in, say, 15 the Branex Com Federal 10, you're looking at a 43 foot 16 Tubb based on the numbers? 17 THE WITNESS: This goes from 6,850 to 6,950, 18 so that's almost or exactly 100 feet thick. 19 COMMISSIONER PADILLA: I've got 6,862 to 20 21 6,895 on mine. THE WITNESS: Well, the number on the left, 22. 23 6,852, references the well on the left. And the 6,895 is the well on the very far right. So that is not the 24 thickness of the Tubb in that interval. 25

Page 79 COMMISSIONER PADILLA: Relating to that, can 1 you give us a ballpark description of the depths and 2 3 thicknesses of these four members as shown in Exhibit I mean, these are obviously not to scale, the blue 4 15? 5 and red boxes? THE WITNESS: I am just going to cheat and 6 use my cross section here. But, you know, the top of 7 the Paddock is roughly 5,500 feet across this area. 8 The top of the Blinebry is right at 5,900 feet and the top 9 10 of the Tubb is right at 6,850. 11 COMMISSIONER PADILLA: And what is the 12 Drinkard? THE WITNESS: The Drinkard would come in at 13 14 6,950-ish. COMMISSIONER PADILLA: And extend to? 15 16 THE WITNESS: We don't drill through the 17 Drinkard over here very often. I really don't know exactly how thick it is. But I'm sure it's several 18 19 hundred feet thick, but I hate to give you a specific 20 number. 21 COMMISSIONER PADILLA: So the majority of the 1,500 feet, I guess my point is, is really the 22 23 Blinebry and Paddock, the target zones? 24 THE WITNESS: Yes. And these vertical wells 25 are all TD'd. We drill them to at least the top of the

Page 80 Tubb and through the Tubb. They are just for -- so we 1 can map the Tubb. So that's the reason that we drill 2 3 these wells and that's the reason I picked these wells 4 for the cross section. 5 COMMISSIONER PADILLA: Dr. Balch alluded to 6 the issue of frac design and trajectories. 7 THE WITNESS: Okay. 8 COMMISSIONER PADILLA: In this case, I don't see much of an infringement on correlative rights. 9 But, 10 obviously, moving forward, if you have depth severances 11 where there were a productive zone underneath, do you 12 have any data that would basically show that your frac 13 radius is staying within whatever the completion 14 engineers have --15 THE WITNESS: Nothing that would clearly 16 establish that or prove that. 17 COMMISSIONER PADILLA: And you don't know 18 what the frac radiuses are --19 THE WITNESS: I don't know what it would be 20 for this interval here. 21 COMMISSIONER PADILLA: For the first five 22 wells? 23 THE WITNESS: I really don't know what it is 24 for those wells. I don't specifically get involved 25 directly with the frac design.

Page 81 COMMISSIONER PADILLA: Okay. I imagine that 1 would be something we would want to look at going 2 forward, especially if you had two productive zones 3 stacked on top of each other with different ownerships. 4 THE WITNESS: That's a different situation 5 than we have here. 6 COMMISSIONER PADILLA: Okay. Using this as 7 a template, I guess, it would be case by case. 8 9 THE WITNESS: Right. 10 COMMISSIONER PADILLA: Thank you. THE WITNESS: Uh-huh. 11 12 EXAMINATION BY CHAIRMAN CATANACH 13 COMMISSIONER CATANACH: In your vertical 14wells in this area, where are they typically perforated? 15 They are typically THE WITNESS: perforated -- though usually -- not "usually" --16 17 predominantly, we will put three frac stages in the Blinebry spaced out fairly uniformly, and then there 18 19 will be one perforated stage in the Paddock interval. So four unique, completed intervals. 20 21 COMMISSIONER CATANACH: So with your proposed horizontal well at landing depth of 6,400 feet, 22 23 will that just drain, do you think, one of the producing 24 intervals in the Blinebry? 25 THE WITNESS: What we would hope is that

Page 82 would drain -- we call this an upper Blinebry well, so 1 we are hoping that would drain the middle to upper part 2 of the Blinebry, which seems to be the most economic. 3 The lower Blinebry has not, in general, 4 performed quite as well. So that is why we are seeking 5 to go optimize in that upper part. 6 COMMISSIONER CATANACH: So have you looked 7 at the economics of drilling additional horizontal wells 8 9 to develop the Paddock in this area? Would that be 10 economic? We've got the one that 11 THE WITNESS: Yes. is just north of this that appears to be -- I mean, it's 12 a very new well -- but it appears it's going to be an 13 14 economic well. COMMISSIONER CATANACH: So the one in the 15 north half of section 9 is a Paddock? 16 17 THE WITNESS: Yes, sir. That's the red dot that you'll see. That indicates that it's a Paddock 18 19 well, as are all those other horizontals that we've 20 drilled, the ones to the east, the Highbar, the 21 Boneless, and then the other -- the Panhead, the Flathead, those are all Paddock wells. 22 23 COMMISSIONER CATANACH: So this is your 24 first Blinebry? 25 THE WITNESS: Yes, it is in this immediate

1 area. That is correct.

2 COMMISSIONER CATANACH: And you presented 3 some geologic data and some water saturation data on the 4 Tubb. We don't have any data on the Drinkard.

5 THE WITNESS: I didn't have any logs that 6 went that deep.

7 COMMISSIONER CATANACH: So do you have any 8 Drinkard data, some geologic data for the Drinkard that 9 would indicate that it's similar to the Tubb?

10 THE WITNESS: Well, it is not similar to the 11 Tubb insofar as the lithology. It is a different 12 lithology.

The only thing I could go back to is the fact that there's no Tubb or Drinkard wells in this immediate area. I mean, if it was productive in this area, someone would have tested it and been exploiting it.

COMMISSIONER BALCH: You can make a 18 19 horizontal well economic in a place where you can't make vertical wells economic. Horizontal wells are ten, 15 20 years technology in this area. So has anyone tried with 21 the horizontal? 22 23 THE WITNESS: The Drinkard? 24 COMMISSIONER BALCH: In this area, yes. 25 THE WITNESS: Not to my knowledge.

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Page 84 COMMISSIONER CATANACH: The Tubb and the 1 Drinkard are generally very productive as you move east. 2 3 THE WITNESS: There are spots where it is, productive, yes. But it's well east of here, yes. 4 5 COMMISSIONER CATANACH: And, in fact, in 6 portions of Lea County, there are actually separate 7 pools for Tubb and Drinkard? 8 THE WITNESS: Right. 9 COMMISSIONER CATANACH: As you move west, is this a general trend in the Tubb and Drinkard, that it 10 becomes nonproductive or is this localized? 11 .12 THE WITNESS: We did a search for Lea and 13 Eddy County for Tubb and Drinkard production. There was nothing to the west. There was only a couple of Tubb, 14 15 Drinkard fields to the east. And they're well east of 16 this. We were able to find no Tubb, Drinkard 17 production in Eddy County at all. I'm not going to say 18 that there's definitely not. But we weren't able to 19 20 find any. 21 COMMISSIONER CATANACH: But were you doing a 22 pool search of Tubb and Drinkard; is that what you were 23 doing? 24 THE WITNESS: No. I believe it was by 25 perforated interval, those that have perfs in the Tubb

1 or Drinkard.

2 COMMISSIONER CATANACH: So you guys haven't actually tested the Drinkard in this area? 3 THE WITNESS: Not in this specific area, no, 4 5 sir. In any of your 6 COMMISSIONER CATANACH: 7 vertical wells that you have drilled, have you tested the Tubb at all, have you perfed the Tubb? 8 9 THE WITNESS: Not since I've been at Concho. I don't know if they did that before I got there. I 10 mean, they were drilling wells that were similar to 11 It could have been done. But I'm not aware of 12 this. 13 it. We never target the Tubb and we try to avoid the Tubb, so... 14 COMMISSIONER CATANACH: And it is your 15 opinion that it is all kind of irrelevant anyway. 16 You 17 don't believe that your fracture stimulation is going to 18 even penetrate the Tubb in this well? 19 THE WITNESS: Again, that's not my field of 20 expertise. But I would have a hard time believing it would go down 400 or 500 feet and penetrate into the 21 22 Tubb in this scenario. If it did, in my opinion, it 23 would only produce water. So we would do everything we 24 could do to not have that circumstance happen. 25 COMMISSIONER CATANACH: Do you know if there

Page 86 1 is any oil saturation in the Tubb? The way the logs calculate, sic 2 THE WITNESS: 3 but you notice there's a bulk shift up in the 80 to 100 percent range. 4 COMMISSIONER PADILLA: Do you have any idea 5 6 what the treatment pressures were on any of the other --7 THE WITNESS: No, sir, sorry. I have no 8 idea. 9 COMMISSIONER CATANACH: Is there any geologic reason why the rights would have been severed 10 11 at this particular depth? THE WITNESS: I have no earthly idea. 12 Ι 13 don't know why they would do that. COMMISSIONER CATANACH: I don't believe I 14 have anything else. Do you have any other questions? 15 16 (No response.) 17 COMMISSIONER CATANACH: Mr. Wade, do you? 18 MR. WADE: No questions. 19 COMMISSIONER CATANACH: Okay. I quess this witness may be excused. 20 21 MR. FELDEWERT: Yes. Mr. Chairman, that 22 concludes our presentation. 23 COMMISSIONER CATANACH: Okay. Do I have a 24 motion to go into executive session? 25 COMMISSIONER PADILLA: So moved.

Page 87 1 COMMISSIONER BALCH: And seconded. 2 COMMISSIONER CATANACH: All in favor. Ave. 3 COMMISSIONER BALCH: Aye. COMMISSIONER PADILLA: 4 Ave. 5 COMMISSIONER CATANACH: The motion is 6 passed. We are going into closed session. 7 (Closed session held from 11:21 a.m. to 8 12:06 p.m.) COMMISSIONER BALCH: I make a motion that we 9 go back into session. 10 11 COMMISSIONER PADILLA: I'll second that 12 motion. 13 COMMISSIONER CATANACH: All in favor. Aye. 14 COMMISSIONER PADILLA: Aye. 15 COMMISSIONER BALCH: Aye. 16 COMMISSIONER CATANACH: The motion is 17 passed. We are back in open session at this time. 18^{-1} The Commission has deliberated on this matter and that is all we have discussed in the closed 19 20 session. 21 The Commission has decided to approve this 22 application. We want to make a couple of things clear 23 on this. Mr. Feldewert, we would like you to propose an 24 order, draft an order that reflects the -- that this 25 approval is based on the facts of this case,

specifically, the geology, the ownership of the zones,
 agreement of the parties, et cetera.

We would also like the Division to draft an order that also approves the application but includes some findings that might be helpful to guide the commission forward on this matter.

7 Just as a couple of comments, the Commission, we don't believe that this case gives us 8 enough information to set a precedent for these types of 9 What that means is that probably in the future 10 cases. these cases will be handled on a case-by-case basis, 11 because the facts of the case, the geology, ownership, 12 13 things like that are going to be different in these types of cases. 14

And we would also like the applicant to 15 further explore the JOA process and to determine if 16 there is a way that the company can actually handle this 17 through a JOA without having to pool a portion of a 18 19 pool. So we'd like you to further address that, maybe 20 at the next hearing, as to why that cannot be done. 21 Anything else? 22 (No response.) 23 COMMISSIONER CATANACH: I believe that's --

24 MR. WADE: Mr. Chairman, if I may, is there 25 a timeline as to the draft, to the OCD drafting the

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Page 89 proposed findings? I would like to have the ability to 1 have the transcript available to us. 2 3 COMMISSIONER BALCH: The next meeting is December 10th. 4 5 COMMISSIONER CATANACH: Do you know when the 6 transcript will be ready? 7 THE COURT REPORTER: In approximately 14 8 days. 9 COMMISSIONER CATANACH: Mr. Wade, that would give you enough time to prepare an order before the next 10 Commission hearing? 11 MR. WADE: It would. 12 COMMISSIONER CATANACH: And as soon as you 13 can so we can have maybe time to review it. 14 15 MR. FELDEWERT: Are you contemplating two submittals or do you want us to try to get together and 16 17 do one submittal? COMMISSIONER CATANACH: Just one submittal 18 19 on your --MR. FELDEWERT: I mean with the Division. 20 COMMISSIONER CATANACH: We will have two 21 22 separate submittals. 23 MR. FELDEWERT: Okay. 24 COMMISSIONER BALCH: There will be one final 25 probably patched togehter by Mr. Brancard.

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1	MR. FELDEWERT: Okay.
2	COMMISSIONER CATANACH: Anything further?
3	MR. FELDEWERT: No. Thank you very much for
4	your time.
5	COMMISSIONER CATANACH: This case will be
6	taken under advisement and the draft orders and all
7	that.
8	Do I have a motion to adjourn?
9	COMMISSIONER PADILLA: So moved.
10	COMMISSIONER BALCH: Seconded.
11	COMMISSIONER CATANACH: The motion passes.
12	This hearing is adjourned.
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15	(Time noted 12:10 p.m.)
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1	STATE OF NEW MEXICO)
2) ss.
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7	REPORTER'S CERTIFICATE
8	T DITENT ATTANTC New Merrice Departer CCD
9	I, ELLEN H. ALLANIC, New Mexico Reporter CCR No. 100, DO HEREBY CERTIFY that on Thursday, November 5, 2015, the proceedings in the above-captioned matter were
10	taken before me, that I did report in stenographic shorthand the proceedings set forth herein, and the
11	foregoing pages are a true and correct transcription to the best of my ability and control.
12	
13	I DUDDUED CEDUIEV that I am neither ampleued by
14	I FURTHER CERTIFY that I am neither employed by nor related to nor contracted with (unless excepted by the rules) any of the parties or attorneys in this case,
15	and that I have no interest whatsoever in the final disposition of this case in any court.
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