

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

IN THE MATTER OF THE HEARING CALLED BY )  
THE OIL CONSERVATION COMMISSION FOR THE )  
PURPOSE OF CONSIDERING: ) CASE NO. 12,346  
)  
APPLICATION OF THE OIL CONSERVATION )  
DIVISION TO AMEND RULE 303.C THROUGH )  
303.H (19 NMAC 15.E.303) ) **ORIGINAL**  
)

REPORTER'S TRANSCRIPT OF PROCEEDINGS

COMMISSION HEARING

BEFORE: LORI WROTENBERY, CHAIRMAN  
JAMI BAILEY, COMMISSIONER  
ROBERT LEE, COMMISSIONER

February 25th, 2000

Santa Fe, New Mexico

OIL CONSERVATION DIV.  
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This matter came on for hearing before the Oil Conservation Commission, LORI WROTENBERY, Chairman, on Friday, February 25th, 2000, at the New Mexico Energy, Minerals and Natural Resources Department, Porter Hall, 2040 South Pacheco, Santa Fe, New Mexico, Steven T. Brenner, Certified Court Reporter No. 7 for the State of New Mexico.

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February 25th, 2000  
 Commission Hearing  
 CASE NO. 12,346

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## A P P E A R A N C E S

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\* \* \*

1           WHEREUPON, the following proceedings were had at  
2   9:08 a.m.:

3           CHAIRMAN WROTENBERY: We'll now go on to Case  
4   12,346. This is the Application of the Oil Conservation  
5   Division to amend Rule 303.C through 303.H, concerning  
6   downhole commingling.

7           What appearances do we have on this matter?

8           MR. ROGOFF: Bruce Rogoff for OCD. We'd like to  
9   call David Catanach.

10          CHAIRMAN WROTENBERY: Will anybody else be making  
11   appearances in this matter today? Okay.

12          MR. CATANACH: Ms. Chairman, I'm David Catanach.  
13   I'm a petroleum engineer with the OCD here in Santa Fe, and  
14   I'm going to be presenting testimony here today on this  
15   rule change.

16          A little bit of background on how we got here.  
17   About a little more than a year ago, it was decided  
18   internally that there could be a streamlining of the  
19   procedure for obtaining downhole commingling, and it was  
20   subsequently put on the Division's agenda items for the  
21   year.

22          And to be more specific, behind Exhibit 1 you'll  
23   find the Division Director's charge to the work group, and  
24   the Division objective -- The overall objective is to hold  
25   hearings and process administrative applications, and the

1 overall goal is more efficient government.

2 The specific action item I was asked to address  
3 was to review and revise the downhole commingling  
4 procedures. And with that in mind I, about a year ago --  
5 or, I'm sorry, a little less than a year ago, I formed a  
6 downhole commingling work group. And the members of the  
7 work group are shown behind Exhibit Tab Number 2. And  
8 fortunately, we do have all of the -- well, all except one  
9 of the work group members here today, and I'd like to  
10 introduce them, if I might.

11 We have Darrell Carriger, who's with Texaco  
12 Exploration and Production out of the southeast.

13 We have Mr. Jim Lovato, who is representing the  
14 Bureau of Land Management out of the Farmington Office.

15 We've got Mr. Larry Sanders, who's representing  
16 Phillips Petroleum Company.

17 Mr. Bill Hawkins, who's representing BP Amoco.

18 And we've got Mr. Dave Pearson who's representing  
19 Yates Petroleum Corporation.

20 And we are missing -- I'm sorry, and Mr. Tom  
21 Kellahin representing NMOGA on our committee.

22 We are missing Ken Collins, who represented  
23 Burlington Resources, and he is out of the Farmington  
24 office. He is on vacation.

25 And on behalf of myself and the Division, I would

1 like to thank these members who worked tirelessly to get  
2 this rule to where we are today. And it was a good group  
3 of people, and I really enjoyed it.

4 I'm just going to go through the exhibits as they  
5 are in the book.

6 Behind the work group are the minutes from the  
7 meetings that we had. We started meeting in June of 1999.  
8 That was our first meeting. We had six meetings. And our  
9 last meeting was in January of this year.

10 And if you care to, we have -- These are the  
11 minutes from each of the meetings, what was discussed,  
12 agenda items and various things like that.

13 Behind Exhibit Tab Number 3 is a copy of Division  
14 Order R-10,470-A, and this was the order that was issued in  
15 March of 1996, that last made major revisions to Rule 303.

16 And let me just kind of outline what was done  
17 with that order. That order increased the total allowable  
18 production for commingled oil zones. That also increased  
19 the limit on water production. It raised the water  
20 production rates so that you could get administrative  
21 approval if your well was producing substantial volumes of  
22 water.

23 And probably one of the most important changes  
24 that that rule made is, it amended the rule to allow for  
25 commingling of marginal zones.

1           Now, before that the rules said that in order to  
2 commingle you had to have a zone that was uneconomic to  
3 produce. So that was the major revision to that rule, and  
4 it really opened the floodgates in terms of companies  
5 filing these applications.

6           That rule also relaxed the pressure requirements,  
7 and we came up with a new criteria. Prior to this rule  
8 change, there was a 50-percent differential rule in the  
9 zones to be commingled. It couldn't be more than 50-  
10 percent differential. This kind of changed the way we look  
11 at it. And the current rule states that the highest  
12 pressured zone in the well can't be more than the original  
13 reservoir pressure of the lower-pressured zone. That's the  
14 rule as it currently stands. We're going to change that  
15 again.

16           And the other major change is that it allowed  
17 crossflow between zones, provided that the reserves will  
18 ultimately be recovered.

19           And other thing that that rule change did, it  
20 created a process whereby a company could come in and  
21 obtain what we called a reference case, and that was --  
22 I'll explain that briefly. If you have a lot of data, say,  
23 in a certain area, say a lot of pressure data or something  
24 else in, say, a federal unit, and you want to come in and  
25 you want to establish a reference case, you come in and

1 present your pressure data. And if it is approved, then on  
2 all the applications that you subsequently file for  
3 downhole commingling, you're excepted from providing that  
4 data. And that's kind of the reference philosophy and how  
5 that is accomplished.

6 Just for your reference, I did not include --  
7 There was a 10,470 which preceded this 10,470-A, and what  
8 that did was, it allowed administrative approval of  
9 commingling where the interest ownership was not the same.  
10 Prior to that, if the interest ownership was different, you  
11 had to go to hearing on that. So that was what 10,470 did.

12 And also we've had a rule change subsequent to  
13 the R-10,470-A. I did not include that in here, but that  
14 was under R-11,224, and that was done in July of last year.  
15 And the Commission amended the rule at that time to  
16 eliminate notice to offset operators.

17 So those are the three changes that we've got in  
18 the recent history of this rule. And so I've included a  
19 copy of 10,470-A for your reference.

20 Also a few pages back from 10,470-A is Exhibit A  
21 to R-10,470-A, and that is the current rule as it stands  
22 right now. And I'm not going to go through that at this  
23 time.

24 A few pages after the current rule, we've got  
25 what we're using at this point. It's called Form C-107-A,



1 and it's the current form that the Division uses for  
2 downhole commingling approval.

3 Behind Exhibit Tab Number 4 I'd like to go  
4 through some of the statistics that we looked at when we  
5 did this rule change. The first exhibit is a downhole  
6 commingling permit summary, and it lists all of the  
7 counties in the state that we've had major downhole  
8 commingling activity. It also lists the administrative DHC  
9 permits and the hearing DHC permits that have been issued  
10 over the history of the OCD in approving downhole  
11 commingling.

12 As you can see, there's been quite a few  
13 administrative permits. We have over 2600 at this point.  
14 We've got 297 hearing permits, for a total of over 2900  
15 permits.

16 And one note here, the hearing permits may have  
17 included more than one well, and generally did. When we  
18 issue a hearing order, it usually approved more than one  
19 well for commingling. So we probably have a substantial  
20 more number than that.

21 Subsequent to that, I've just got a breakdown of  
22 the administrative commingling permits for the San Juan  
23 Basin. This again breaks them down by county. You can see  
24 that Rio Arriba had the most in northwest New Mexico with  
25 960.

1           Administrative permits for the Permian Basin in  
2     southeast New Mexico, we've had 894. By far, that is the  
3     most in southeast New Mexico. Second is Eddy County with  
4     114.

5           Permits for downhole commingling that were  
6     approved at hearings, for the San Juan Basin, again, Rio  
7     Arriba with 99, San Juan 83.

8           And hearing permits for the Permian Basin, 74 for  
9     Lea County, 38 for Eddy County.

10          Behind that, we've got an exhibit titled the  
11     administrative workload, and what this is is the total  
12     number of applications that have been processed over the  
13     years. And as you can see from the graph, from about 1970  
14     to about 1992 or so, it will remain fairly steady. It  
15     started taking off in 1993 and has really jumped up,  
16     especially since we changed the rule back in 1996. It just  
17     really opened the floodgates and really allowed a lot of  
18     operators to commingle where they couldn't before under the  
19     rules.

20          And so last year we had over 400 applications,  
21     and it seems to be steady currently, it's about the same.

22          So this is why we had an idea that we needed to  
23     do something to further streamline the process, because the  
24     workload on the Division was pretty bad, and it was just a  
25     big burden on industry to have to file these things all the

1 time.

2 So, what I've got behind that tab is the current  
3 approval process for downhole commingling, and this kind of  
4 gives you an idea how these things are processed now. Each  
5 application is filed on a C-107-A, and they're filed with  
6 the Santa Fe office of the Division. And they've got to  
7 meet all the criteria currently contained within the rule.  
8 We call these the prerequisites or the criteria.

9 The engineering bureau currently reviews each and  
10 every application, and we make sure it complies with the  
11 rules and that, of course, there's no objection to it. And  
12 it usually takes about 20 to 25 days to process an  
13 application. After that, we issue a permit number and an  
14 order approving the application.

15 And it's important to note, all the permits are  
16 currently approved by Santa Fe. None of them are currently  
17 approved by any District Offices.

18 If the interest ownership between zones to be  
19 commingled is different, the applicant currently must  
20 notify all interest owners who own interest in the  
21 wellbore, and we hold the application for 20 days to allow  
22 any operators to object to the proposed commingling.

23 If we do have an objection, we set the C-107-A to  
24 hearing and we hear the case at an Examiner Hearing. And  
25 subsequent to that, we issue an order either approving it

1 or denying it.

2 Again, reference cases, we have generally heard  
3 those at Examiner Hearings, and I've already kind of gone  
4 over the principle of the reference case. And hearing  
5 orders are usually issued in reference cases as well.

6 So that's kind of the current -- currently the  
7 way we do it.

8 Behind that is a -- The reference case is a  
9 little bit unclear to some people, and so I included a copy  
10 of a reference order that we had actually issued for  
11 Burlington. This was back in 1996. And they came in and  
12 obtained exemption status for marginal economic criteria,  
13 pressure criteria, allocation formulas and notification  
14 rules for its San Juan 28-5 Unit.

15 And what this order did is, whenever they  
16 submitted subsequent C-107-A's after this, they didn't have  
17 to submit any pressure data, they didn't have to present  
18 any data which would indicate that the zones were marginal  
19 and so on. They didn't have to do allocation formulas  
20 or...

21 But the most important thing this did is, it  
22 allowed them to not have to notify each and every interest  
23 owner in the unit every time they submitted a C-107-A,  
24 which was quite burdensome, because we had upwards of 300  
25 or 400 interest owners in some of these units. So that's

1 the most important thing it did for Burlington.

2 After that exhibit we've got -- I've got another  
3 excerpt from 303.C, and these are the current criteria.  
4 These are kind of the prerequisites to qualify for downhole  
5 commingling, and I'm not going to go through these now  
6 because I'm going to go through them a little bit later  
7 because they're going to be changed, we're going to  
8 recommend changes to each of these. But these are what we  
9 require now.

10 For your reference, I've also got a sample  
11 application from Phillips Petroleum Corporation or Company,  
12 which was filed fairly recently, and this is kind of the  
13 thing that we see regularly.

14 Behind that we've got a sample administrative  
15 order that we issued for all these wells.

16 And at the current time I'd like to go over the  
17 summary of the proposed changes that we'd like to make to  
18 the rules, and these are kind of the major points that I'd  
19 like to hit.

20 The Committee has decided that we want to adopt a  
21 concept of a pre-approved pool or area, and what this is is  
22 an area that -- say it's a combination of two pools, say  
23 Blinberry and Drinkard. Say we've had so many comminglings  
24 in these pools that we think we have enough data to where  
25 we don't need to see everything all the time, we don't need

1 to see extensive data on each application.

2 And so what we want to do is, we want to approve  
3 that as a pre-approved pool, and any subsequent  
4 applications to downhole commingle in this pre-approved  
5 pool will be filed on a C-103 sundry notice, and it will be  
6 done at the District Office. We hope that that streamlines  
7 the process. The operators won't have to wait as long to  
8 get an order from Santa Fe, and it will be a whole lot less  
9 burdensome on them to do so.

10 We today have a list of pools that we, the  
11 committee, would like to recommend as a pre-approved pool  
12 list, and we have also a geographic area that we'd like to  
13 approve, and I'll go into that a little later.

14 We analyzed the Division's administrative and  
15 hearing order databases, and we came -- Upon this analysis,  
16 we determined that there was a lot of pools out there that  
17 we thought we had enough data to go ahead and recommend at  
18 this time that they be pre-approved pools. And so we've  
19 got a list for you today for those.

20 Again, this Number (3) adopts the streamlined  
21 process. This is the C-103 process, and we hope that it  
22 will streamline it to where an operator can file a bunch of  
23 these at the District and not have to wait for them any  
24 substantial amount of time.

25 And also the C-103 that they file, it's going to

1 contain a lot less information. It's still going to  
2 require some information, but it's going to be a lot less  
3 than they would normally file on the C-107-A.

4 This is mis-numbered, it should be number (4).  
5 We want to amend the criteria for approval. What I showed  
6 you before, the prerequisites or the criteria, we want to  
7 change some of those, we want to relax some of the  
8 requirements. And in order to honor some of the changes  
9 that we've made to the rules, we have to change the Form  
10 C-107-A.

11 And those are basically the major changes that we  
12 want to recommend today.

13 And if I could, I'd like to go over at this time  
14 the current approval -- the criteria changes that we would  
15 like to make, the current approval criteria versus what we  
16 propose. And I guess these are some of the most important  
17 changes we want to make.

18 This is -- Right behind the Summary of Proposed  
19 Changes -- are you all with me here? Behind Exhibit Tab  
20 Number 5?

21 CHAIRMAN WROTENBERY: Yeah, got it.

22 MR. CATANACH: The first criteria that we want to  
23 change is, there's currently a requirement that -- for when  
24 you commingle two oil zones, we give you an allowable for  
25 the well, and that allowable is whatever the top allowable

1 is for the shallowest commingled zone in the wellbore.

2 That's the current rule.

3           What we want to do is open that up. We see no  
4 reason that zones that produce in excess of marginal  
5 production should not be commingled. What we are  
6 proposing, that is, If you have two oil zones that are  
7 commingled, or gas zones for that matter, that they be  
8 allowed to produce up to what they would normally produce,  
9 their top allowable for that pool. So this will really  
10 open up the commingling to some wells that couldn't qualify  
11 before because they produced a little bit too much.

12           Criteria (a)(ii), this goes into the method of  
13 production, and we felt that this could be eliminated from  
14 the criteria. It really wouldn't be a detriment to the  
15 rule if we eliminated this.

16           There is currently a restriction on water  
17 production from these commingled wells, such that the  
18 current water limit is twice the oil limit. So if the zone  
19 has an 80-barrel-a-day allowable for oil based on the  
20 shallowest zone, the well would have a 160-a-day maximum  
21 water production allowable.

22           We thought we'd just take the water production  
23 limit out entirely. Generally, these pumped wells are  
24 maintained in a pumped off condition, so it's not going to  
25 be detrimental to the reservoirs, in our opinion.



1 Criteria (a)(iv) -- and it's currently in there

2 in two places; it's in there in (a)(iv) and (b)(v) for oil.  
3 One section is for oil and one section is for gas. And by  
4 the way, we are eliminating the different sections for oil  
5 and gas and just combining these into one group of criteria  
6 for both oil and gas wells.

7 And we are not changing that criteria, we felt  
8 that was very important, the fluids -- that it's  
9 demonstrated that the fluids are compatible and that  
10 combining the fluids won't damage any of the reservoirs.  
11 We felt that needed to be in there, and we left it in  
12 there. We have a minor change in the language on that, I  
13 think.

14 Criteria (a)(v), "The commingling will not  
15 jeopardize the efficiency of present or future secondary  
16 recovery operations..." We did not change that, we left  
17 that in there. We felt it was important to have that in  
18 there.

19 The next criteria on the next page is (b)(i).  
20 This is the criteria that pertains to marginal producing  
21 zones. This currently states that one of the zones has to  
22 be a marginal producer in order to qualify for commingling.  
23 The committee recommends that we eliminate this criteria.  
24 Again, we see no reason why wells that can produce above  
25 marginal rates should not be allowed to commingle. We see

1 no potential harm to the reservoirs, and as long as we  
2 maintain an allowable for each pool and enforce the  
3 allowable for each pool, we think that we can commingle  
4 these zone without any detriments and without any  
5 correlative-rights violations.

6 The next criteria (b)(ii), the bottomhole  
7 pressure. And again, currently, to qualify for  
8 administrative approval, the current pressure of the  
9 highest pressured zone cannot exceed the original reservoir  
10 pressure of the lower pressured zone.

11 And some of the logic, and when we adopted that  
12 during the last rule change, we felt that if the current  
13 reservoir pressure in the higher pressured zone exceeded  
14 the original pressure in the lower pressured zone, there  
15 was a chance that due to this high pressure, that it may  
16 fracture out of that formation and we may permanently lose  
17 reserves. That's the logic that we used last time we  
18 changed the rule.

19 We're not doing a whole lot with the rule with  
20 regards to pressure, except that we're allowing -- now, we  
21 calculated a pressure differential between the two zones  
22 which would be within this safe margin, and we determined  
23 that to be -- What we're going to propose is, we're going  
24 to propose that based on depth, if the top perforation in  
25 the upper zone is within 150 percent of the depth of the

1 lower perforation in the lower zone, that pressure data  
2 need not be submitted. And we have an exhibit that kind of  
3 goes through this a little bit clearer.

4 So if your two commingled zones are in this depth  
5 range, you won't have to submit any pressure data to obtain  
6 commingling. If they're out of this range, you will still  
7 have to present pressure data to demonstrate that the  
8 pressure in the higher pressured zone won't exceed the frac  
9 pressure of the lower pressured zone. And that may be a  
10 little bit hard to understand, but I've got an exhibit that  
11 will kind of go through that also.

12 Criteria (b)(iii), "...commingling will not  
13 result in the permanent loss of reserves due to crossflow  
14 in the wellbore." We didn't change that at all, we left  
15 that in there.

16 "...any zone which is producing from fluid-  
17 sensitive formations...is protected from contact from such  
18 liquids..." We left that in there with a minor language  
19 change. We felt it was important to -- that these  
20 formations be protected from fluids that might harm the  
21 reservoirs. And again, this is just the criteria that --  
22 the (b)(v) is the one that we've already gone through.  
23 We're going to keep this again, but there's only going to  
24 be one of these in there.

25 And those are the major changes to the criteria

1 that we have proposed today.

2 I'd like to kind of go over the process that we  
3 used to come up with the reference pools. Again, we  
4 statistically analyzed the databases that we have for all  
5 these wells in the state, and --

6 COMMISSIONER LEE: Are you coming back to explain  
7 the (b)(ii)

8 MR. CATANACH: (b)(ii).

9 COMMISSIONER LEE: You said later on you were  
10 going to explain in detail.

11 MR. CATANACH: About the pressure?

12 COMMISSIONER LEE: Yes.

13 MR. CATANACH: I've got an exhibit. Okay, it's  
14 the last page before Exhibit 7, and what this shows is that  
15 if we assume a normal pressure gradient in the well, then  
16 the pressure in the lower zone is going to be at .433  
17 p.s.i. per foot of depth to the bottom perforation. That's  
18 going to be the pressure at that point in the wellbore.

19 We've also assumed that at the top perforation in  
20 the wellbore, in the upper commingled zone, that the  
21 fracture pressure of that zone is going to be .65 p.s.i.  
22 per foot to the top of that perforation.

23 If you calculate the pressure differential in the  
24 well, we've determined that at 150 percent -- if you take  
25 the top perforation and you multiply that depth times 150

1 percent, that's going to give you a depth in the well where  
2 the fracture pressure -- or where the pressure of that  
3 lower formation is not going to exceed the fracture  
4 pressure of the upper formation. That's where we got the  
5 150 percent.

6 So anything in this depth range, we feel safe  
7 that the pressure in the lower zone is not going to  
8 fracture the upper formation. That is why we are  
9 recommending that we don't have to submit pressure data for  
10 this kind of regime here.

11 COMMISSIONER LEE: So you're saying that the  
12 bottom pressure and the upper pressure, one is 150 and one  
13 is 100, and it's okay?

14 MR. CATANACH: What we're saying, again, is, if  
15 you go in a normally pressured wellbore and you assume that  
16 the pressure in the lower zone is .433 p.s.i. down to that  
17 depth, you can calculate a pressure at that depth in the  
18 wellbore --

19 COMMISSIONER LEE: Uh-huh.

20 MR. CATANACH: Now, if you take that pressure --  
21 I'm sorry, you can go, then, to the top perforation in the  
22 upper zone, and you can calculate what that formation would  
23 fracture at at that depth. That would be the fracture  
24 pressure at that depth. That depth -- It would be  
25 multiplied times .65, times the top perforation depth. So

1 there you've got a fracture pressure at that point in that  
2 upper zone.

3 But what you don't want to have is the lower  
4 pressure -- I mean the pressure in the lower zone, you  
5 don't want that to exceed the fracture pressure of the  
6 upper zone.

7 So within this 150-percent range, we've  
8 determined that that will not occur, that pressure in that  
9 lower zone will not exceed the fracture pressure at that  
10 point in the upper zone. Does that make sense?

11 COMMISSIONER LEE: So you basically they have to  
12 be very, very close to each other?

13 MR. CATANACH: They have to be within 150 percent  
14 of each other, which would be --

15 COMMISSIONER LEE: No, I mean, the depth has to  
16 be very, very close?

17 MR. CATANACH: Fairly close, yes, that would be  
18 the consequence.

19 CHAIRMAN WROTENBERY: Do you have any safety  
20 factor built in to these assumptions or calculations? How  
21 conservative are they?

22 MR. CATANACH: We do not have any -- Right, we're  
23 not taking into account the fluid gradient in the wellbore.  
24 And also, these pressures are not generally going to be  
25 virgin pressures. They're generally going to be way below

1    what the pressure was at the time, you know, of virgin  
2    conditions.  So that's a safety factor.

3           COMMISSIONER LEE:  You don't have to worry about  
4    a fluid gradient in the wellbore, I don't think, do you?

5           MR. CATANACH:  Right, we've not taken that into  
6    consideration.  The pressure in the lower pressure zone may  
7    not be that high because of fluid in the wellbore.

8           Is that okay?

9           CHAIRMAN WROTENBERY:  Thank you.

10          MR. CATANACH:  Okay.  Behind Exhibit Tab Number  
11    6, we've got some pressure data from the San Juan Basin  
12    that we used for -- specifically, this was for the  
13    Mesaverde and Dakota.  And this first exhibit, which is  
14    three pages, came from Burlington, actually.  These are all  
15    Burlington wells.  And they've got a Basin average for the  
16    Mesaverde and Dakota, and the differential is not that  
17    great between these two formations.

18          MR. KELLAHIN:  So the point was -- ?

19          MR. CATANACH:  So the point was, we felt -- my  
20    co-chair.

21          (Laughter)

22          MR. CATANACH:  We felt that commingling the  
23    Mesaverde and the Dakota on a Basinwide deal was fairly  
24    safe at this point in terms of reservoir pressure.  The  
25    pressures were not such that -- We didn't think that the

1 Dakota pressure was going to be great enough to fracture  
2 the Mesaverde formation.

3 This is also -- Tom's going to point out this map  
4 over here that was generated by Burlington, and this kind  
5 of illustrates the pressure differential. This is the  
6 pressure that the Dakota is placing on the Mesaverde, is my  
7 understanding of it. We don't have the witness here that  
8 produced this map, but this shows that the Dakota is not  
9 exerting very much pressure on the Mesaverde, not nearly  
10 enough to -- I think one of the highest is .1 or .2, and of  
11 course the fracture pressure, if you assume that, was .6.

12 So we feel fairly comfortable that the pressures  
13 are depleted so much in the San Juan Basin that we're not  
14 going to have any fracturing of these commingled zones.

15 Behind the Burlington exhibit, we've got another  
16 exhibit which was provided to us from -- BLM actually  
17 provided this to us, and this is just a tabulation some of  
18 the pressures that they have gathered. And I think this  
19 was in wellbores that they currently had pending  
20 applications for downhole commingling. So this is fairly  
21 accurate and recent data. And this is just some of the  
22 pressure data that we looked at in the San Juan Basin. We  
23 looked at a lot more than this. We didn't want to present  
24 it all, though.

25 Okay, we've gone over the pressure, so if you



1 want to go to -- Maybe what I'll do at this point, I'm  
2 going to stay on the subject that I've been talking about,  
3 and I'm going to go to Exhibit Number 8. And this is the  
4 summary of the database that we looked at, and this first  
5 exhibit is for the Permian Basin, and this lists the pools  
6 that are commingled and the number of orders that we've  
7 issued for each pool. And this is kind of what we started  
8 out with.

9           And we've got a similar exhibit for the hearing  
10 orders in the Permian Basin, and we follow that up with a  
11 similar exhibit for the northwest, which lists the various  
12 pool combinations. For instance, in northwest New Mexico,  
13 in the Basin-Dakota and the Blanco-Mesaverde Pool, we've  
14 got approximately 734 downhole commingled wells in those  
15 two formations.

16           So this is kind of where we started with in terms  
17 of analyzing and trying to come up with a list of reference  
18 pools. And what we did is, we looked at the pools that had  
19 -- at least in the southeast part of the state, we looked  
20 at pools that had at least, I believe, three commingled  
21 wells in them.

22           And what we did at that point, we generated a  
23 list of these pools, and we actually mapped the commingled  
24 pools together, we plotted the wells that have been  
25 commingled on these maps, just to make sure we had a good

1 distribution of wells within the two pools, and then we  
2 felt comfortable that we had enough data from these wells  
3 that had already been commingled to go ahead and accept the  
4 whole pool as a reference pool.

5 And we did the same kind of thing in the San Juan  
6 Basin. If you'll look behind Exhibit Tab Number 10, we've  
7 got quite a few maps from the San Juan Basin that we  
8 generated.

9 And for instance, this first map is a Mesaverde-  
10 Chacra pool, and we mapped the boundaries of the Blanco-  
11 Mesaverde Pool and we mapped this particular Chacra  
12 interval, and we plotted all the downhole commingled wells,  
13 as well as all the hearing-order wells that have been  
14 approved. And for instance, in this particular case we got  
15 a really good distribution of wells within this Chacra-  
16 Mesaverde commingled reservoir. We thought we certainly  
17 have enough data at this point to go ahead and recommend  
18 that as a reference pool.

19 And we did that systematically for all of the --  
20 Well, we've got a Chacra-Dakota, we've got a Fruitland Coal  
21 and Pictured Cliffs map, we've got a Mesaverde -- I'm  
22 sorry?

23 COMMISSIONER LEE: What is the water table  
24 usually in this area of the San Juan Basin?

25 MR. CATANACH: I'm sorry, the water table?

1 COMMISSIONER LEE: Yes.

2 MR. CATANACH: You mean the freshwater interval?

3 COMMISSIONER LEE: Yes, the freshwater interval.

4 MR. CATANACH: There's some freshwater in the --

5 COMMISSIONER LEE: Because your calculation,  
6 you're assuming the water is on the surface, immediately,  
7 and going all the way down to the reservoir. You're using  
8 the .433 as basically a water gradient, and water gradient  
9 does not happen until you have fresh water. What is the  
10 depth of the fresh water?

11 MR. CATANACH: Well, certainly in the San Juan  
12 Basin we have some water that is fairly close to the  
13 surface.

14 COMMISSIONER LEE: Okay.

15 MR. CATANACH: Again, just going through these  
16 exhibits, we've got a Mesaverde-Dakota, we've got a Dakota-  
17 Pictured Cliffs, and we've got a Gallup-Dakota.

18 And for instance, on this Gallup-Dakota there may  
19 be more than one Gallup pool involved. For instance, the  
20 outlined acreage in yellow is the base of the Dakota Pool,  
21 and we have several Gallup pools in this area that we've  
22 plotted on this one map.

23 And what we've done is recommended approval for,  
24 say, the Basin-Dakota, and each one of these Dakota  
25 Pools -- or Gallup Pools, I'm sorry, as a pool combination.

1           If you'll turn to the Dakota and Pictured Cliffs  
2 exhibit, I'll just briefly go through that. It's about the  
3 third one from the back.

4           COMMISSIONER LEE: Well, I have a problem with  
5 the gas well. The gas well, if you have a gas well, then  
6 the gas on the bottom moving to the top, it will maintain  
7 the pressure. I think that will exist and exit the  
8 fracture portion. Is that true?

9           MR. CATANACH: I'm sorry --

10          COMMISSIONER LEE: Okay, suppose you have 1000  
11 feet, one zone. The other one is 1500 feet. Then you have  
12 a gas zone. It's -- You have a gas zone. Suppose you have  
13 a gas zone 200 feet, and that pressure is coming back. It  
14 definitely is going to exit the fracture portion, because  
15 the gas is going to be overpressured.

16          MR. CATANACH: The gas is going to be  
17 overpressured in the deep zone, the 1500-foot zone?

18          COMMISSIONER LEE: Yes.

19          MR. CATANACH: Are you saying in excess of the  
20 .433?

21          COMMISSIONER LEE: Yes, because that all depends  
22 on the thickness of the gas flow. Of course, I'm using  
23 exaggerated numbers, 200.

24          MR. CATANACH: Well, if you have abnormally  
25 pressured zones in a wellbore --

1           COMMISSIONER LEE: It's not abnormal pressure.  
2       It's just -- The pressure, the overpressure of the gas,  
3       depends on the thickness of the gas zone.

4           MR. HAWKINS: One of the things I think we want  
5       to make sure we're looking at, we're talking about the  
6       maximum pressure in the lowest zone would occur at the base  
7       of that sand.

8           CHAIRMAN WROTENBERY: Mr. Hawkins, would you  
9       identify yourself?

10          MR. HAWKINS: I'm sorry, I'm Bill Hawkins with BP  
11       Amoco.

12          The two depths that we're trying to -- What we're  
13       basically trying to do is determine, are there some depths  
14       of formations or combinations of formations that are close  
15       enough together that we wouldn't have to worry about  
16       measuring the pressure, that those two zones should be  
17       close enough that there's no way the lower zone is going to  
18       frac into the upper zone.

19          So we looked at -- The highest pressure in that  
20       low zone is going to occur at the very bottom of the -- at  
21       the base of the sand. And so we're looking at that depth,  
22       and we're going to compare that to what would be the --

23          COMMISSIONER LEE: You're not answering --

24          MR. HAWKINS: -- fracture pressure --

25          COMMISSIONER LEE: Yes.

1 MR. HAWKINS: -- the easiest fracture pressure  
2 for it to exceed in the upper zone.

3 COMMISSIONER LEE: Yes, I completely support your  
4 proposal here. I'm just saying, in some particular case I  
5 do not believe your calculation is valid.

6 MR. HAWKINS: Our case would only be valid if  
7 we're dealing with normal-pressured reservoirs, that's  
8 correct.

9 COMMISSIONER LEE: This is normal -- The one I'm  
10 talking about is normal pressured reservoir. You have 200  
11 feet of the gas zone. That means you have additionally 200  
12 feet of the water to support this pressure. So your  
13 pressure -- The pressure difference at that particular  
14 point, although the depth is 500 feet apart, but the  
15 pressure difference is supposed to be 700 feet apart --

16 MR. HAWKINS: Well, what we're using is the 700  
17 feet, because we're --

18 COMMISSIONER LEE: You're not using the 700 --

19 MR. HAWKINS: -- using the depth at the bottom of  
20 the --

21 COMMISSIONER LEE: You are not using the 700  
22 feet.

23 MR. HAWKINS: If you look at the exhibit that we  
24 provide, the little schematic --

25 COMMISSIONER LEE: The reservoir, the gas

1     reservoir -- Okay, this is the pocket of a gas reservoir.  
2     Gas reservoir, the pressure here is essentially the  
3     pressure on the bottom of the 700 feet --

4             MR. HAWKINS: Right.

5             COMMISSIONER LEE: -- because there's no gradient  
6     inside this gas bubble.

7             MR. HAWKINS: Correct, and we're saying the 150  
8     percent is from the bottom of the sand to the top of the  
9     other formation. So we're not looking from the top to the  
10    top, we're looking from the bottom of one to the top of the  
11    other.

12            COMMISSIONER LEE: Oh, all right, all right. I'm  
13    sorry, yes, yes, you're right. Yes, you're right.

14            CHAIRMAN WROTENBERY: Does that answer your  
15    question?

16            COMMISSIONER LEE: Yes. Sorry about it.

17            MR. CATANACH: Okay. Anyway, getting back to  
18    where I was, this particular Dakota-Pictured Cliffs, for  
19    instance, we're going to recommend that the Basin-Dakota  
20    and the -- say the South Blanco-Pictured Cliffs, we're  
21    going to recommend that be included as a pool commingling,  
22    a reference pool, and that -- For instance, this lists  
23    various Pictured Cliffs pools on this exhibit, and we're  
24    probably going to recommend most of these PC-Dakota  
25    combinations.

1           Behind Exhibit Tab Number 11 I've plotted some of  
2   the pools in the southeast that we're going to recommend  
3   for approval as pool combinations, and these again just  
4   show the pool boundaries and just show where the downhole  
5   commingling wells are within these pools and the  
6   distribution, and these are the ones we felt pretty  
7   comfortable with in approving -- in recommending them for  
8   pre-approved status.

9           Let me talk about, one of the major things we  
10   looked at in the Permian Basin is the Blinebry, Tubb and  
11   Drinkard trend. If you go back to Exhibit Number 8, that  
12   first page on Exhibit Number 8, what jumps out at you if  
13   you look at the administrative orders that have been issued  
14   in the Permian Basin are the numbers that have been  
15   generated for commingling of Blinebry, Tubb and Drinkard  
16   Pools. The Blinebry, Tubb and Drinkard fall fairly close  
17   to each other, so they're often commingled in this area of  
18   Lea County.

19           And what I've got up on the wall is, I've got  
20   this actual Blinebry-Tubb-Drinkard trend that we've plotted  
21   out. And each of these maps represents a different  
22   commingling horizon. I don't know what they are exactly,  
23   but one of them is Blinebry-Drinkard, one of them is  
24   Drinkard-Tubb, and one of them is Blinebry-Tubb.

25           And what we did is, we plotted all of the



1 downhole commingles in each of these horizons. And, we in  
2 our deliberations, determined that there were just so many  
3 wells in this whole trend that had been commingled in these  
4 three formations, that what we wanted to recommend is that  
5 we adopt this whole geographic area for downhole  
6 commingling and approval for these three horizons,  
7 Blinebry, Tubb and Drinkard, because there's an extensive  
8 amount of data that we felt really comfortable with in  
9 going ahead and approving these.

10 And in fact, some of these -- There are some  
11 pools that exist in Lea County that have been combined, the  
12 Blinebry, Tubb and Drinkard have been combined into one  
13 pool by the District Office. So I mean, this is almost to  
14 the point where it's almost a common source of supply.  
15 There's so much commingling going on that we're  
16 recommending this whole geographic area be approved.

17 And that's shown behind Exhibit Tab Number 9,  
18 which is the pools and geographic areas that we are  
19 recommending to be pre-approved. Again, this starts off  
20 with this Blinebry-Tubb-Drinkard area, and it gives the  
21 exact township and ranges of the geographic area we'd like  
22 to accept, and this would include all Blinebry, Tubb,  
23 Drinkard, Blinebry-Tubb, Blinebry-Drinkard and Tubb-  
24 Drinkard pool combinations within this following area.

25 And I've listed all the Blinebry pools, all the

1 Tubb pools and all the Drinkard pools, as well as the  
2 Blinebry Tubb and Tubb-Drinkard pools that are in this  
3 area.

4 So for instance, if you had a well that was  
5 producing in, say, the House-Blinebry and you wanted to  
6 commingle it with the Nadine-Tubb Pool in this geographic  
7 area, this would fall under the pre-approved area or pool,  
8 and you could do this by filing a C-103.

9 So this takes into account all of these pools and  
10 all of this geographic area.

11 This is the only area that we accepted. From  
12 here we get into the specific pool combinations, and those  
13 are listed following there. The first one is in Lea  
14 County, and I think we've got 23 or so pool combinations in  
15 Lea County that we hope to accept.

16 We've only got one pool combination in Eddy  
17 County, and that was because we had -- the numbers were  
18 down for Eddy County, but we had quite a few situations  
19 where we only had maybe one well commingled in certain pool  
20 combinations. We didn't feel like one well was sufficient  
21 to go ahead and include that in the pool list. So we only  
22 have one pool combination for Eddy County.

23 We've got quite a few for the San Juan Basin that  
24 we're recommending be adopted, and those are shown also on  
25 this Exhibit.

1           We skipped over Exhibit Number 7, which is simply  
2           the revised Form C-107-A. This is what we are proposing be  
3           used. There is not a whole lot of major changes to this  
4           form. The pressure box we changed, we eliminated some of  
5           the other boxes.

6           I guess the most important aspect of this change  
7           is, we added the reference pool section. And one of the  
8           things that we're recommending is that an operator be  
9           allowed to come in to establish reference pools. Say that  
10          he's got some pools that aren't on our list and he thinks  
11          he's got enough data in this pool to come in and include it  
12          in the reference pool section. This is the opportunity.  
13          He would file a C-107-A for a particular well, and he would  
14          include the additional information down in the reference  
15          pool section. And after review of that, we would either  
16          approve or deny his request to make these reference pools.

17          So the operator has the opportunity to add to the  
18          list of pools that we hope to establish here today.

19          And that's really the major change to that form.

20          Exhibit Number 12, early on in this process, we  
21          had a sort of a request from the -- There was a New Mexico  
22          Oil and Gas Association commingle group that was meeting  
23          kind of simultaneously with our work group, and one of the  
24          members of the work group, Mr. Foppiano, had a request that  
25          we might take a look at Atoka and Morrow zones in Eddy

1 County and maybe issue some kind of blanket authorization  
2 or reference pool status for the Atoka-Morrow.

3 And the committee took a look at it, and we  
4 declined to recommend the Atoka-Morrow, simply because  
5 there were so many different Atoka-Morrow pools in Eddy  
6 County that we did not feel that it was appropriate to  
7 issue a blanket-type approval for those two formations.

8 Under the current process, these operators, if  
9 they want to include them in a reference pool, they still  
10 have the opportunity to come in with their own data, if  
11 they want to collect that data and present it to us, we can  
12 do these one at a time. Or if they want to do a large  
13 area, we can consider that data at a reference-pool-type  
14 hearing.

15 Exhibit Number 13 is the draft of the rule that  
16 we are recommending be adopted. And behind that is the  
17 red-line, strike-out version of the Rule 303, and that  
18 shows all of the changes that we are proposing to make.

19 During the process of these meetings, I felt that  
20 it was important to consult with the Commissioner of Public  
21 Lands, and since we had a BLM representative on our  
22 committee, we did not specifically consult with BLM. But I  
23 did, during the process, consult with Pete Martinez at the  
24 Land Office. And specifically what I talked to him about  
25 was our proposal to streamline the process where an

1 operator would just have to file a C-103 sundry notice for  
2 pools that we hope to -- for reference pools.

3 I had some discussions with Pete, and we kind of  
4 worked out what he would like to see on the C-103. What we  
5 envision is, if an operator has to file a -- or is allowed  
6 to file a C-103, that they would simply file a copy of that  
7 with the Land Office. So I wanted to make sure that the  
8 C-103 had all the information that the Land Office would  
9 require. And I did consult with Pete, and hopefully I  
10 think we got everything on there that we need to. So that  
11 was one of the things we did.

12 The other thing that we did is, on January 26th I  
13 sent a letter to the Commissioner of Public Lands advising  
14 them of the proposed rule changes and seeking their  
15 comments on the rule. I did get a letter back from the  
16 Commissioner, signed by -- I'm sorry, that is behind  
17 Exhibit Tab Number 14, is the letter I wrote to the  
18 Commissioner of Public Lands. And the response is the last  
19 page of this exhibit. This is from Mr. Anthony Nash,  
20 Deputy Director of the Oil, Gas and Minerals Division. And  
21 he did recommend some changes.

22 We looked at this and we felt that that was  
23 already -- what they were suggesting was probably -- was  
24 already in there, because Form C-107-A has a box that says,  
25 Have you sent a copy of this Application to the

1 Commissioner of Public Lands? So that's in there. And we  
2 did include -- For the process of filing a C-103 sundry  
3 notice, we did include that in there to where they would  
4 have to file a copy of the C-103 with the Commissioner of  
5 Public Lands. So we're going to make sure they file that  
6 with you guys.

7 We think we're done, and we would entertain  
8 questions at this time. We've got the whole committee  
9 here, so we can hopefully answer any questions you might  
10 have.

11 CHAIRMAN WROTENBERY: Commissioner Bailey?

12 COMMISSIONER BAILEY: I have a question. In the  
13 past, we have received applications from people who would  
14 like to get downhole commingling approval prior to the well  
15 even being drilled. Do you think this rule would allow  
16 that kind of situation?

17 MR. CATANACH: We are currently processing those  
18 type of applications, Jami. We do that pretty much  
19 routinely because we have so much data, say, in the San  
20 Juan Basin, we feel comfortable with approving these things  
21 before they get drilled. The important thing is the  
22 allocation of production between the two zones, and we  
23 still require that they go into the District Office after  
24 the well is drilled and they establish an allocation  
25 formula based on well tests or some other method. So

1 that's the important thing, we think, in these  
2 applications.

3 Under the current rule, I would anticipate that  
4 we would still approve wells that had not been drilled, if  
5 we had a sufficient comfort level. And certainly in a pre-  
6 approved pool, we would feel pretty comfortable with that.

7 COMMISSIONER BAILEY: Which brings up a question  
8 I got slightly confused when you all were discussing  
9 earlier with Dr. Lee. Does this pre-approved pool concept  
10 have a problem for those overpressured zones of the  
11 Fruitland Coal?

12 MR. HAWKINS: In the Fruitland Coal, what we  
13 looked at -- I think the only combination we looked at with  
14 the Fruitland Coal was the Pictured Cliffs, which is the  
15 formation immediately below the Fruitland Coal. And we  
16 only included the Pictured Cliff pools that were outside of  
17 that overpressured area. But we did not include any of the  
18 Pictured Cliff pools that were inside the overpressured  
19 part of the Fruitland Coal.

20 COMMISSIONER BAILEY: Then behind Tab 8, I saw  
21 where the Chacra and the Mesaverde and the Gallup were all  
22 on this list of zones.

23 MR. CATANACH: I'm sorry, which list are you  
24 looking at, Ms. Bailey?

25 COMMISSIONER BAILEY: Behind Tab 8, which simply

1 is a tabulation of the orders that have been --

2 MR. HAWKINS: Right.

3 COMMISSIONER BAILEY: So which tab is it that has  
4 the recommended pools for the --

5 MR. HAWKINS: It's not 9 --

6 MR. CATANACH: Yeah, that's behind Tab Number 9.

7 COMMISSIONER BAILEY: Nine.

8 MR. CATANACH: And the first page of that tab is  
9 this Blinebry-Tubb-Drinkard area that we're recommending.

10 MR. HAWKINS: The third page is the San Juan  
11 Basin.

12 MR. CATANACH: Yeah, and that's followed by Lea  
13 County, and the third page is where the San Juan Basin  
14 starts.

15 COMMISSIONER BAILEY: Okay, I see. No problem.  
16 Thank you.

17 MR. CATANACH: Yes, ma'am.

18 COMMISSIONER BAILEY: I don't have anything else.

19 CHAIRMAN WROTENBERY: Let me just ask you, I was  
20 trying to read the letter from the Land Commissioner and  
21 compare it with what's in the current draft of the rule  
22 regarding notice to the Land Office. Are you satisfied  
23 with --

24 COMMISSIONER BAILEY: That's what I was busily  
25 doing a while ago, was just seeing if there were -- Yes, I



1 am satisfied.

2 CHAIRMAN WROTENBERY: Okay.

3 Commissioner Lee?

4 COMMISSIONER LEE: No questions.

5 CHAIRMAN WROTENBERY: No questions?

6 Mr. Catanach, have you discussed the proposal  
7 with our district offices?

8 MR. CATANACH: I have. This proposed draft rule  
9 has been -- we put this out on our website about a month  
10 ago, and I have pointed out to the District Offices,  
11 District Supervisors, that it's there, they need to look at  
12 it. I have not received -- I received a comment from Chris  
13 Williams, who had a question on a couple of items, but  
14 that's the only correspondence that I've received from any  
15 of them.

16 CHAIRMAN WROTENBERY: Okay.

17 COMMISSIONER LEE: You talked to your District  
18 Office through a website?

19 MR. CATANACH: Well, we posted the rule on our  
20 website, the draft rule.

21 CHAIRMAN WROTENBERY: And then he let them know  
22 individually, it was --

23 MR. CATANACH: I told them --

24 CHAIRMAN WROTENBERY: -- on the website.

25 Have you done any calculations on the cost

1 savings that would be achieved by this particular proposal?  
2 Do you have any estimates on the cost to the operator of  
3 submitting a downhole commingling application?

4 MR. CATANACH: I'll let an operator answer that  
5 one.

6 MR. HAWKINS: Yeah, I don't know that we -- We  
7 didn't attempt to put any cost savings. I think the main  
8 thing is to streamline the process, and there's a couple of  
9 things that are going to do that. One is that we've got a  
10 list of pools that there's been a lot of commingling  
11 activity occurring. We're saying those pools are pre-  
12 approved now, you don't have to provide all of the  
13 information you've been providing in the past. All you  
14 have to do is send a sundry notice in with the perforations  
15 that you're going to have and how you're going to allocate  
16 production, so that's pretty simple.

17 CHAIRMAN WROTENBERY: That will entail some cost  
18 savings, it would just happen on a --

19 MR. HAWKINS: It would entail some cost savings  
20 because of time savings, and we haven't attempted to, you  
21 know, put a number to that.

22 And the other thing we've done is, we've relaxed  
23 to a certain degree some of the criteria that David pointed  
24 out earlier where there were some limitations on water  
25 production and some limitations due to allowable. We

1 basically said commingling shouldn't be any more  
2 restrictive than if you're drilling a single well, in terms  
3 of allowables or what you're allowed to produce out of it.  
4 You shouldn't have an extra burden, other than single  
5 completion. So we've made those fixes.

6 And that's going to open up a few more wellbores  
7 that people had, in the past, said, Oh, I can't commingle  
8 that because there's a restriction on something. So that  
9 will allow a few more wells to be commingled and hopefully  
10 enjoy a savings, you know, in operation efficiency.

11 MR. PEARSON: Sort of along the lines of  
12 Commissioner Baker's [sic] -- we've discussed with some of  
13 the southeast New Mexico operators with respect to the  
14 Atoka-Morrow, and there are -- a bunch more so than the  
15 administrative savings, there are operational cost savings,  
16 depending on how different operators complete their wells.  
17 Speaking for Yates, we tend to frac both zones, and so it's  
18 not going to be as material for us, but just in reducing  
19 pressure measurements, a couple or three thousand dollars a  
20 well.

21 There are other operators that do their  
22 completions differently, and there are much more material  
23 savings for them because they don't frac both zones, they  
24 don't select -- in essence, they don't really select and  
25 test both zones that way. It's not a large -- We used to

1 drill a lot more wells to that depth, and it's not a large  
2 well -- but it occurs a lot depending on the depth of the  
3 well.

4 CHAIRMAN WROTENBERY: Thank you.

5 COMMISSIONER LEE: Well, different spacing, can  
6 we commingle it?

7 MR. CATANACH: Yes, we allow that now, for  
8 instance, in the Dakota and some of the shallower Pictured  
9 Cliffs formations, we do a lot of commingling.

10 The interests may be different because of the  
11 different spacing units, but in that case we would require  
12 them to notify all the interest owners.

13 COMMISSIONER LEE: So right now you're basically  
14 telling people the Fruitland Coal is 160, because the  
15 Pictured Cliffs is 160?

16 MR. CATANACH: The Fruitland Coal is currently  
17 spaced on 320.

18 COMMISSIONER LEE: Right, but if you're allowed  
19 to commingle --

20 MR. CATANACH: Well, they're still precluded from  
21 drilling to Fruitland Coal wells on a 320. They can't do  
22 that under --

23 MR. HAWKINS: You can only commingle one of the  
24 wells out of the Fruitland Coal in each spacing unit. You  
25 can't take the other zone -- you know, open up another

1 well --

2 MR. CATANACH: Right.

3 MR. HAWKINS: -- and have more wells in the  
4 Fruitland Coal. But you're allowed one, and you can  
5 commingle it with something.

6 MR. CATANACH: Yeah, under the spacing rules you  
7 can't have two Fruitland Coal wells, so it doesn't get into  
8 this.

9 CHAIRMAN WROTENBERY: In the situation where you  
10 do have different interest ownership in the two zones, how  
11 do we notify the interest owners under the proposal?

12 MR. CATANACH: Well, under the -- If they still  
13 had to file a C-107-A, they would do it just like they're  
14 doing it now and submit it to Santa Fe. But for the  
15 District Office approval, I anticipate that they would have  
16 to either make a statement that all interest owners have  
17 been notified or actually provide some kind of proof to the  
18 District Supervisors that these interest owners have been  
19 notified. And I anticipate that the District would  
20 probably have to wait 20 days to allow for any objection.

21 Fortunately, it's not that common, it doesn't  
22 really come up too, too often. So for the most part they  
23 wouldn't have to deal with it.

24 CHAIRMAN WROTENBERY: And the interest owners  
25 that we're talking about include various types of royalty

1 interests, as well as working interests?

2 MR. CATANACH: Well, we would notify working,  
3 royalty and even overriding royalty interest owners.

4 MR. KELLAHIN: If you'll turn to Tab 13 and look  
5 at the third page of the proposed rule, you will see down  
6 at the bottom that if the Commission adopts this process,  
7 then in a pre-approved pool you would file a Form C-103,  
8 and one of the things the applicant will have to do then is  
9 sign a certification attesting to the fact that they have  
10 sent notice to all categories of owners in the spacing unit  
11 by certified mail.

12 And then at the top of the next page it says, and  
13 also certifying that they have received no objection within  
14 that notice period.

15 So the District Office doesn't have to manage  
16 notice, and they don't have to worry about that process.  
17 They're going to rely upon the sworn statement of the  
18 applicant that notice is satisfied.

19 If the applicant receives an objection then they  
20 can either abandon the application or set it to hearing and  
21 have it dealt with in that fashion.

22 So there's a very specific affirmative notice  
23 obligation with the expedited process. The C-107 process  
24 for notice is undisturbed.

25 CHAIRMAN WROTENBERY: And then I guess my next

1 question was for Commissioner Lee. Were you satisfied that  
2 there was an adequate safety factor built into this 150-  
3 percent standard?

4 COMMISSIONER LEE: I think so. I think it can be  
5 lower than that, because the pressure is already very low.

6 MR. CATANACH: Yes. Most of these reservoirs  
7 have been commingled for years, so we're not talking about  
8 virgin reservoir pressure.

9 CHAIRMAN WROTENBERY: Did you have another --  
10 something to add to that?

11 MR. CATANACH: I'm -- Did you guys have any --

12 CHAIRMAN WROTENBERY: Where do we go from here?  
13 What's the next step?

14 MR. CATANACH: Well, surprisingly I haven't had  
15 very many comments from industry at this point. As a  
16 matter of fact, I haven't had any comments from industry.  
17 Bill would like to make a statement on behalf of NMOGA at  
18 this time.

19 MR. HAWKINS: Concurrent with this work group, I  
20 was also hearing a group of the NMOGA representatives to  
21 keep them advised of where we are in this process so that  
22 we would be aware of what we're looking at, the types of  
23 rule change we're coming up with, and proposed language.

24 And so we have gone out to the NMOGA membership  
25 several times with informational reports and also with some

1 language that's being considered, and we've had a couple of  
2 comments that we brought back to this work group.

3 And I talked to Rick Foppiano from the Regulatory  
4 Practices Committee just a couple of days ago, and he said,  
5 you know, that we wanted to make sure that you understood  
6 the NMOGA representatives are comfortable with this rule  
7 change, we support it, and there may be -- they'd like to  
8 have an opportunity to make some comments on specific  
9 language. Some of those companies may have their comment.  
10 But beyond that, they're very happy with the result that  
11 we're proposing to you today.

12 CHAIRMAN WROTENBERY: Thank you, Mr. Hawkins.  
13 Anybody else wanted to make a comment?

14 MR. LOVATO: I'm Jim Lovato with the Bureau of  
15 Land Management. One of the things that we tried to do  
16 again was streamline the whole process. Our processes  
17 between the Bureau and the OCD are very similar in terms of  
18 the application for downhole commingling.

19 Certainly, if this rule does become amended it's  
20 not going to change any of the rules, the existing rules,  
21 that the Bureau has. However, what it will do, it will  
22 allow us to go and consider all the analysis, all the  
23 technical input from the committee in terms of our review  
24 processes for downhole commingling.

25 In the San Juan Basin in particular, we have



1 extensive experience working it with the reference cases,  
2 and so this was a real logical extension of that, to  
3 consider these pool combinations for downhole commingling.  
4 It's really going to streamline our process as well.

5 In terms of the southeast part of the state, they  
6 will take this information under advisement and go and  
7 utilize the information as appropriate, but we are not  
8 going to be changing the Bureau rule in terms of the  
9 streamline process, we'll just take it under advisement.

10 CHAIRMAN WROTENBERY: Thank you, Mr. Lovato.

11 Anybody else?

12 Mr. Catanach, if you think this will work,  
13 perhaps what we'll do is extend the comment period -- or  
14 establish a comment period, I guess, really, on this  
15 particular proposal that would end maybe a week before our  
16 next Commission meeting.

17 Ms. Davidson, do you know when that would be?  
18 March 24th is the next Commission hearing, and the Friday  
19 before that would be March 17th. Do you think that would  
20 give everybody adequate time to take a last look at the  
21 proposal?

22 MR. CATANACH: I think so. I mean, we've been  
23 kind of keeping industry advised every step of the way, and  
24 I think they're fairly familiar with what we're doing, and  
25 I think they've had sufficient time. So...

1 CHAIRMAN WROTENBERY: And Ms. Hebert, do you  
2 think that we'll be able to do all that we need to do in  
3 terms of publication of the proposal by that date --

4 MS. HEBERT: We should be.

5 CHAIRMAN WROTENBERY: -- or at least by the -- so  
6 that we could consider it --

7 MS. HEBERT: -- for adoption --

8 CHAIRMAN WROTENBERY: -- for final adoption at  
9 the March 24th meeting?

10 MS. HEBERT: (Nods)

11 CHAIRMAN WROTENBERY: Okay, we'll make an  
12 announcement, then, that we would request that any further  
13 comment that anyone would want to make on this proposal  
14 should be submitted in writing to the Division by Friday,  
15 March 17th, and then we'll take the matter up and, I hope,  
16 proceed to final adoption at the Commission's March 24th  
17 meeting.

18 MR. CATANACH: So you wouldn't take any  
19 additional testimony at the March hearing?

20 CHAIRMAN WROTENBERY: I don't know that it would  
21 be necessary at this point. I think what we can do is ask  
22 for the written comments by the 17th and then judge at that  
23 point whether we might need to take some testimony. But  
24 right now I'm thinking we'll just ask for written comments.

25 Okay, will that take care of us procedurally?

1 MS. HEBERT: (Nods)

2 CHAIRMAN WROTENBERY: Yes, okay.

3 Well, I'd just like to say thank you to Mr.  
4 Catanach for his presentation. Very well done. Good  
5 information. Made it easy to grasp. I really appreciate  
6 the effort you put into the presentation and the leadership  
7 you've shown on this particular issue.

8 And thank you, too, to the whole work group. I  
9 know I saw you on many occasions in here for fairly lengthy  
10 meetings, trying to sort through the issue, and I really  
11 appreciate the time and the effort, and thank you for the  
12 proposal.

13 Anything else on this?

14 COMMISSIONER LEE: No.

15 CHAIRMAN WROTENBERY: Thank you all very much.

16 MR. CATANACH: Okay, thank you.

17 (Thereupon, these proceedings were concluded at  
18 10:30 a.m.)

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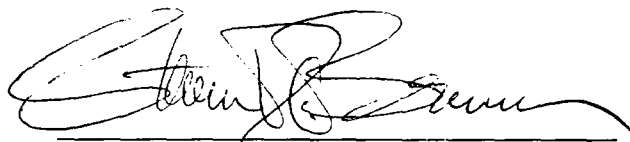
## CERTIFICATE OF REPORTER

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I, Steven T. Brenner, Certified Court Reporter and Notary Public, HEREBY CERTIFY that the foregoing transcript of proceedings before the Oil Conservation Commission was reported by me; that I transcribed my notes; and that the foregoing is a true and accurate record of the proceedings.

I FURTHER CERTIFY that I am not a relative or employee of any of the parties or attorneys involved in this matter and that I have no personal interest in the final disposition of this matter.

WITNESS MY HAND AND SEAL February 27th, 2000.



STEVEN T. BRENNER  
CCR No. 7

My commission expires: October 14, 2002