1	NEW MEXICO OIL CONSERVATION DIVISION
2	STATE LAND OFFICE BUILDING
3	STATE OF NEW MEXICO
4	CASE NOS. 10745 and 10754
5	
6	IN THE MATTER OF:
7	
8	The Application of Meridian Oil Inc.
9	to amend Division Order No. R-9920
10	and to reopen Cases 10754 and 10745,
11	San Juan and Rio Arriba Counties, New Mexico
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15	BEFORE:
16	MICHAEL E. STOGNER OIL CONSERVATION DOLL
17	Hearing Examiner
18	State Land Office Building
19	August 26, 1993
20	
21	ORIGINIAL
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23	REPORTED BY:
24	SUSAN B. SPERRY Certified Court Reporter
25	for the State of New Mexico

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EXAMINER STOGNER: Call the next cases,
 10745 and 10754, to be reopened.

3 MR. STOVALL: These are the applications of 4 Meridian Oil Inc., to amend Division Order No. R-9920 and 5 to reopen Cases 10754 and 19745, San Juan and Rio Arriba 6 Counties, New Mexico.

7 EXAMINER STOGNER: Call for appearances. 8 MR. KELLAHIN: Mr. Examiner, I'm Tom 9 Kellahin of the Santa Fe law firm of Kellahin and 10 Kellahin, appearing on behalf of the Applicant, and I have 11 one witness to be sworn.

12 EXAMINER STOGNER: Are there any other
13 appearances? Will the witness please step forward, take
14 the bench, raise your right hand.

MR. KELLAHIN: Mr. Examiner, we appreciate the opportunity to reopen these cases and to discuss with you again a certain provision of Order 9920. We have requested the opportunity to supplement the record and to present to you our request for the economic criteria to justify the downhole commingling of those wells.

I have brought with me today certain witnesses that are available for discussion, all the witnesses that participated in the original hearing. Mr. Alexander is here, if there's any questions of him.

25 Mr. Mike Dawson is the reservoir geologist that

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presented the geology, I've asked him to come back. Mr.
 Jim Craddock is the production engineer supervisor for
 Meridian. These wells are his responsibility.

Mr. Scott Daves works for Mr. Craddock, under his supervision. Mr. Scott Daves was the original engineering witness that provided the discussion to the division concerning the five cases that were decided by Order R-9920.

9 In addition, Mr. Daves worked in association 10 with Mr. Shipley, who was the engineer that presented the 11 economics on the other two cases that are reopened, the 12 Valdez well, and then the last well.

I propose to call for direct testimony Mr. Scott Daves to explain to you his economic criteria, and to discuss with you the opportunity to amend the existing order.

In our discussions yesterday with these technical people, we have drafted yesterday proposed language changes where, if you agree with us, we have suggested a solution.

This has been an evolving process. At the original hearing, substantial effort was spent on the allocation formula by which reliable means of allocation between the Pictured Cliffs and the Fruitland could be realized. Meridian believes that the Examiner has

1 properly and carefully allocated the production.

You may remember that following that initial hearing, you requested Mr. Daves to provide additional support on the economics. We now want to present to you what we think is a viable solution, so that you can use a graph that will give you an economic threshold to justify downhole commingling.

8 Mr. Daves, in his technical analysis, has used 9 three factors: the cost components, initial rate, and 10 ultimate gas recovery. He's made his analysis on Pictured 11 Cliffs, and he's prepared to discuss with you how he made 12 those conclusions and how the calculations were prepared.

In the prehearing statement, we have suggested one solution to you. Should the Examiner decide to have a specific value as to initial rate and ultimate recovery, we've suggested a number. There is an inherent weakness in that methodology, because it only picks one point in time to set that rate.

In reflecting on the prehearing statement yesterday, we would like to suggest to you that we substitute a different method, which would be the adoption of a curve, which Mr. Daves will explain to you. A point can be found on that curve, below which the combination of rate or EUR will give you the threshold below which then the only way to produce this gas is under a downhole

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1 commingling procedure.

2 With that introduction, then, I'd like to 3 present Mr. Daves to explain to you this aspect of the 4 case.

5 We have not marked this for introduction. It is 6 an orientation map, which perhaps we can unroll it 7 somewhere convenient for you, just to give you a sense of 8 where these wells are.

9

SCOTT DAVES

10 After having been first duly sworn under oath,

11 was questioned and testified as follows:

12

EXAMINATION

13 BY MR. KELLAHIN:

14 Q. For the record, would you please state your name 15 and occupation?

16 A. My name is Scott Daves. I'm a reservoir17 engineer with Meridian Oil.

Q. Mr. Daves, were you the technical witness that provided the reservoir engineering and the economic presentation at the original hearing that resulted in Order R-9920?

22 A. Yes.

Q. In addition, have you reviewed the transcript and record not only of that case, but of the consolidated cases for 10754 and 10745?

1 A. Yes.

2	Q. Do you now have additional recommendations to
3	the Examiner with regards to the adoption of an economic
4	criteria by which downhole commingling, in your opinion,
5	would be justified for these seven cases?
6	A. Yes, I do.
7	MR. KELLAHIN: We tender Mr. Daves as an
8	expert reservoir engineer.
9	Examiner STOGNER: Mr. Daves is so
10	qualified.
11	Q. (By Mr. Kellahin) Let me have you take a moment,
12	Mr. Daves, and use the orientation map to identify for the
13	Examiner the seven wells or the seven cases that are the
14	subject of this hearing.
15	A. Okay. The two road wells that are listed are
16	right here. The Rhodes C-101, the Rhodes C-102, the
17	Whitley A 100, the Rally Call No. 500, Adams 500, the San
18	Juan Unit 20 or San Juan 28-4 Unit No. 225, and the Valdez
19	No. 5.
20	Examiner STOGNER: So the record is clear,
21	the first four wells that you talk about were in the lower
22	right-hand corner of the large map that is on the table,
23	not offered as an exhibit today.
24	THE WITNESS: Lower left-hand.
25	Examiner STOGNER: I'm sorry, lower left-

1 hand corner.

2 THE WITNESS: The first five are. 3 Examiner STOGNER: Marked with pink arrows? THE WITNESS: 4 Right. 5 Examiner STOGNER: And then subsequent to, 6 or the last two wells, are on the far right-hand side? 7 THE WITNESS: Correct. 8 Examiner STOGNER: And they're in which unit? 9 10 THE WITNESS: It's the San Juan 28-4 unit, 11 Unit No. 225. And the other one is Valdez Unit No. 5 --12 excuse me. It's Valdez No. 5; it's not a unit well. 13 Examiner STOGNER: It's the far-right well? 14 THE WITNESS: Right. 15 Examiner STOGNER: Okay. Thank you. 16 Q. (By Mr. Kellahin) Give us a generalized summary, 17 if you will, Mr. Daves, of the relationship that caused 18 you to package onto your analysis the five cases that were described as being on the lower-left area? Those are the 19 20 ones dealt with by Order R-9920? 21 A. Correct. 22 Q. And, how they relate, then, to the other two 23 wells, which are 10745 and 10754? 24 A. How they relate is, they were all proposed as 25 new drill wells. They are all proposed as Fruitland

Coal/Pictured Cliffs commingles. And, although they do
 produce out of various pools, as designated by various
 orders, they are Pictured Cliffs/Fruitland Coal commingles
 as proposed.

5 Q. Let's focus on the five for a moment.

6 A. Okay.

Q. Are you the engineer primarily responsible for analyzing the economics to determine whether or not it was suitable to drill for those two pools in this area, using either downhole commingling, dual completion, or

11 single-well technology?

12 A. Yes.

Q. What was the analysis or the criteria that you and your company apply in order to answer that question? A. The three primary criteria that we look at, first off, we look at reserves. Are there enough reserves in there to pay out the investment of drilling and completing, facilitating these wells?

19 Second thing that we look at is cost. We look20 for the optimal cost scenario.

21 And the third thing that we look at is initial22 rates.

Q. Let's turn to the exhibit that shows the summary of the economic criteria. Where is that found in the exhibit book?

1 A. It's Exhibit 2.

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2	Q. Describe for me, as a layman, what do you do as
3	a reservoir engineer when you look at reserves, costs, and
4	flow rate in order to compare those factors, or
5	components, to arrive at a decision on what to do, in
6	terms of the type of well you drill?
7	A. First off, as far as reserves are concerned, we
8	look for a method, an amount of reserves that will provide
9	us with a way to pay out our investment. And that would
10	lead you into the costs, and we evaluate the various
11	alternatives as to how to produce those reserves.
1 2	And then, the final thing that we look at is
13	flow rate.
14	Q. Define for me what you have meant by "flow
15	rate." What kind of rate of flow are you looking for in
16	the well?
17	A. Initialized, initial stabilized production, and
18	then production through the life of the well.
19	Q. Why is that important to you as a rate, as
20	opposed to any other way to measure rate?
21	A. That's where your sales come from. That's where
22	your revenue is generated.
23	Q. When you look at the five wells in this area
24	that were authorized under Order R-9920, what was the
25	range of maximum flow rate that you analyzed? You started

1 from zero, and projected on up to what maximum rate?

A. 750 a day. We didn't expect those kinds of
rates, but we ran sensitivities to evaluate that scenario.
Q. The purpose of running it to that extreme is to
cover any potential rate that might have been expected in
either pool within this area?

7 A. Right, correct.

8 Q. What do you do about the reserve volume or 9 number that you used in the analysis?

10 A. When you look at reserves, there again, we 11 sensitized between zero and some number that we know would 12 be slightly above a theoretical EUR in a specific area.

Q. The purpose, then, would be to investigate the full range of potential reserve that might be realized in seither pool?

16 A. Correct.

Q. All right. Having investigated the greatest range of flow rate and the greatest expansion of EUR, what did you do about the cost?

A. I explored the options of a single completion per zone, a dual completion per zone, and a commingle completion per zone.

Q. One of the provisions of the order we're seeking
to modify is that provision which dealt with the downhole
commingling for both pools. The order provides that the

1 economic criteria is based upon a combination rate for 2 both pools?

A. Right. I believe that's what the order states.
Q. And you're proposing to change that?

5 A. Correct.

6 Q. Why?

7 A. The problem with just using a rate is it doesn't 8 take into consideration a reserve amount. And economics 9 are as sensitive, or more sensitive, to a reserve amount 10 as they are an initial rate.

Q. Why would you not want to determine EUR and rate on a consolidated basis for both pools? Why would you separate it out and focus only on one pool first, and then the other?

A. In a true economic analysis, I don't think you
can. It's as sensitive to each of those two factors, an
economic solution.

18 Q. My question is, when you look at the economic
19 solution, Meridian proposes to apply that to an individual
20 pool?

21 A. Right.

Q. The order lumps it together for both pools?A. Right.

Q. Why are you proposing to single out the economiccriteria for either the PC or the Fruitland separately?

A. One of the things that we looked at when we
 looked through, evaluated the orders was, is a zone in and
 of itself economic?

4 So, we're looking at that point using reserves 5 and rates and costs, and evaluating each zone specifically 6 for an economic determination, if that zone is itself 7 economic.

8 Q. Your basis for doing that is the application of 9 the downhole commingling rule in the rule book?

10 A. That's correct.

11 Q. Is there an economic criteria within the12 downhole commingling rules that discusses this issue?

A. I believe the wording is it is economic -- I can quote that; might be best if I do that. Says that, "The commingling is necessary to permit a zone or zones to be produced which would not otherwise be economically produceable."

18 Q. There may be instances, then, where one pool19 would be economic, but the other one is not?

20 A. That's correct.

Q. And, therefore, in order to produce the
uneconomic pool, you've got to have downhole commingling,
or you have to abandon those reserves?

A. Exactly.

25 Q. Having followed that methodology, were you able

to come to an engineering conclusion about various
 threshold rates, below which only downhole commingling was
 the method by which these reserves could be produced?
 A. That's correct. We documented that with Exhibit
 No. 3. It's a graph.

6 Q. Let's look at Exhibit No. 3, and show us how to 7 read it, and then we'll go through specific examples.

8 A. Okay. On the X axis, you have initial rate, and 9 that's sales rate on a daily basis. On the Y axis, you 10 have EUR, states here Pictured Cliffs, EUR.

11 And then, the three curved lines that go through 12 the dark line, that is representative of a 15 percent, a 13 15 percent rate of return for a single-well completion. 14 This dotted line that's in the middle would be a dual 15 completion, based on those costs.

And the dotted-dashed line, which is the lowest left-hand corner, would be a commingle. And each of these represents the point at which you would have a given EUR and a given initial rate that would give you a 15 percent rate of return for each of the various scenarios.

Q. Is this an exhibit that currently is in the casefile for any of these cases?

23 A. No, sir, it's not.

24 Q. It's a new exhibit?

25 A. Right.

1 Q. Why have you utilized the 15 percent rate of 2 return?

3 A. That's a typical economic threshold.

Q. Was that the rate of return that Mr. Shipley used when he presented the economics on the other two cases?

7 A. That's correct.

Q. When you look at the curve, what determines the
position of those curves for each case on this display?
A. The investment and the specific operating costs
for each scenario shape that curve.

Q. Talking about the costs of the well and
operating expenses associated with that type of well?
A. Correct.

Q. The darkest curve, the one in the upper right-hand corner of the illustration, is for the single-well cost and operating expenses for a well to be drilled only to the Pictured Cliffs or Fruitland Coal?

19 A. That's correct.

20 Q. Would the economics change for either one of 21 those pools for this example?

22 A. Slightly, if at all.

Q. Would that slight change make any material difference in the decision to be made by the Examiner here? 1 A. No.

2 Q. When you look at the next curve down, what does 3 that represent?

A. That represents a dual completion, and the
5 associated costs and operating costs that would be
6 associated with that.

Q. And, then, the lowest curve represents what?8 A. A commingle.

9 Q. Describe for us how you would apply this curve 10 as a basis upon which to determine, prior to drilling, 11 whether or not, in a certain area, we can have downhole 12 commingling approved as the method for producing reserves 13 from these two pools.

A. Using the allocation formula that was presented in previous testimony, you could determine an EUR and estimated initial rate using those two pieces of data. You could move along the Y axis, determine an EUR, find that point on the Y axis. You could move along the X axis, determine an initial rate, connect the two somewhere within the graph.

And, at that point, that would give you an evaluation of whether the well is economic or not, given the various scenarios.

Q. In any individual example, the initial rate mayvary considerably in relation to the EUR?

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1 Α. Correct. Correct. And that's why it's 2 important that you have both of these on a separate axis. 3 Have you provided a tabulation for the Q. Examiner? I believe it's shown behind Exhibit Tab No. 4? 4 5 Α. That's correct. 6 **Q**. What is the purpose of the information on Exhibit No. 4? 7 8 Two things, essentially. One, to give a summary Α. 9 of where we are with our program with these specific 10 cases, and the results that we have at this point. 11 And, then, at the same time, you can use that 12 data and those results, and go back into this curve and 13 determine which is the economic completion technique to 14 use. 15 Q. Let's deal with one question first. 16 A. Okay. 17 0. When we look at Exhibit 4, let's second-quess 18 ourselves. We asked for approval to downhole commingle 19 initially drilled wells in certain areas. 20 In examining this data, did we make the right 21 choice for those wells? 22 A. To commingle? 23 Yes, sir. 0. 24 A. That's correct. 25 **Q**. Was there any other result realized from

1 drilling these wells?

2 A. No, sir.

Q. None of the drilling information would have,
now, in hindsight, allowed you to either dual or
separately produce either reservoir?

6 A. That's correct.

Q. Give us an example of that. Let's look at
8 Exhibit 4 and start off with the Aztec 700.

9 A. All right. This was a well that was completed, 10 drilling completed last year. The initial flow test for 11 the Pictured Cliffs was determined to be 266 MCF per day. 12 The original flow test for the Fruitland Coal was 539 MCF 13 per day.

14 If you use that ratio, those two times, the 15 initial monthly production of 275 MCF per day, you 16 calculate out a Pictured Cliffs initial rate of 91 MCF a 17 day. We determined the shut-in bottomhole pressure of 130 18 PSI.

You can calculate out, using the next two
columns there, the hydrocarbon pore volume and recovery
factor, and you get a Pictured Cliffs EUR of 175.7 million
cubic feet.

Now, having that 175.7 number and the 91 MCF per
day, you can go to this graph. You can pick off the 91
MCF per day point, and the 175.7 million cubic feet, and

1 the decision on downhole commingling for either pool?

A. You would use the graph essentially the same way. You would determine an EUR for the Fruitland Coal, and an initial rate, and it would fall under the same curves, so you could use this curve for that.

Q. Is this standard industry reservoir economic
7 analysis that is applied by Meridian and others to analyze
8 EURs for different pools?

9 A. Yes.

10 Q. There's nothing special or unusual about the 11 methodology or the calculations used?

12 A. No.

Q. Do you have an opinion as to whether or not this serves as a reliable basis for providing an economic limitation in the commingling orders for these cases?

16 A. Yes, it's a reliable basis.

Q. Let me ask you to turn to Exhibit Tab 1. Look
beyond the application, and find the last page in there,
which says "Meridian's Proposed Amendments to Order."

20 Are you with me?

21 A. I'm with you.

Q. I'm interested in the last paragraph of that proposed change, where it talks about how to utilize this curve in the order. Are you with me?

25 A. Yes.

Q. Let's look at the graph, and if we're using the graph as the benchmark, you would look at an EUR you'd find on the Y axis, 600?

A. Correct, 600. And on the X axis, an initial 5 rate of 500 a day. You would go up, find the point where 6 those two lines intersect, you see that it is above the 7 economic threshold for a dual.

8 Q. So, downhole commingling does not get approved9 at that time for that well?

10 A. Correct. Now, if, say, the rate, the EUR was 11 the same and the rate was only 300 a day, you'd scoot over 12 two segments there, and you would see that it does not 13 exceed that economic threshold. And, therefore,

14 commingling could be allowed.

Q. Why is this method preferable to the one contained in the order, where it has a combined total gas production, it says, in excess of 300 MCF per day?

18 A. One, if you look at the single rate out of a 19 single zone here at 300 a day, if that zone was the only 20 one producing, according to this curve, you would have to 21 dual it at 710 million cubic feet. Okay?

If you look back at Exhibit 4, the various cases that we've presented, the EURs in all of these do not exceed that number. So, therefore, you're limiting yourself to an initial rate of 300, but yet, there's no

discussion of how EUR affects that, that economic limit or
 economic threshold.

Q. By combining those two factors and comparing them to cost, in your opinion, would that be an accurate way in which the Division can determine at what threshold point they will allow Meridian, as operator, to pursue downhole commingling for initially drilled wells?

8 A. It defines that threshold limit; that limit is a 9 function of several things. So, what these curves do is 10 define that limit very clearly.

11 Q. Let's talk about "what if."

12 A. Okay.

13 Q. If the Division approves this for these wells, 14 and you have a different area of the basin that has PC and 15 Fruitland potential?

16 A. Right.

17 Q. You believe them to be marginal areas?

18 A. Yes.

19 Q. Would you then have to develop a new curve to 20 apply to another area, or is this curve here generic, so 21 that it could be applied to all similar cases in the 22 basin?

A. You would probably be able to use this curve for a lot of areas. But, in my opinion, I would want a curve that's specific to those investment costs, those operating

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1 costs, those EURs, and those initial rates.

2 Granted, for the cases that we're talking about, 3 it does work. But, if you move to a different area, they 4 may not.

Q. And, that would be part of your obligation, if you were the applicant, then, to provide the necessary reservoir and geologic information to meet some threshold area and to define the area in which these components were common?

10 A. Absolutely.

MR. KELLAHIN: That concludes my
examination of Mr. Daves, Mr. Examiner. We move the
introduction of his Exhibits 1 through 4.

14 EXAMINER STOGNER: Exhibits 1 through 415 will be admitted at this time.

16

EXAMINATION

17 BY EXAMINER STOGNER:

18 Q. Mr. Daves, looking at Exhibit No. 3 of Order No. 19 R-9920, of all the wells that were included in that 20 particular order, would this particular curve be adequate 21 for those wells?

22 A. Absolutely.

Q. And, of course, for the two reopened casestoday?

25 A. Right.

Q. Have you done an EUR on these wells involved in
 this case today, on this matter today?

A. For the Pictured Cliffs. We've tested -- if you'll refer to Exhibit 4, the results that we have so far of the wells that are in these cases, the Rhodes C 101, the Rhodes C 102, and the Whitley A 100, what we have done to date is, we have drilled the well, we have completed the Pictured Cliffs, we have concluded our flow tests for the Pictured Cliffs, and we have established shut-in bottomhole pressures.

With that data, we have been able to calculateEURs for the Pictured Cliffs.

13 Q. And that's shown on the last column to the 14 right?

15 A. Yes, sir.

16 Q. And, then, in looking at -- all these wells, 17 then, produce a combined, over, a combined rate of over 18 300 MCF; is that correct?

A. There's a possibility that they will, a real
strong possibility, once you combine them with the
Fruitland Coal.

Q. The ones that you have tests, I'm looking at the Aztec 700, you show a Pictured Cliffs flow rate of 266; is that correct?

25 A. Right, that's a test rate. The actual sales

1 rate was 275, and then the actual allocated to the 2 Pictured Cliffs was 91. 3 EXAMINER STOGNER: Mr. Stovall, do you have 4 any questions? 5 MR. STOVALL: This engineering stuff, I 6 don't understand it. No, I don't. 7 EXAMINER STOGNER: I have no other 8 questions at this time. 9 Mr. Kellahin, do you have anything further? 10 MR. KELLAHIN: No, sir. 11 EXAMINER STOGNER: Would you provide me a 12 rough draft? 13 MR. KELLAHIN: Yes, sir, I'd be happy to. 14 EXAMINER STOGNER: And how to incorporate 15 this curve, perhaps, as an exhibit. 16 MR. KELLAHIN: Yes, sir. 17 MR. STOVALL: Mr. Kellahin, is your 18 language in your prehearing statement, is that intended to 19 be the language that you would copy? 20 MR. KELLAHIN: No, sir. 21 MR. STOVALL: Oh, okay. 22 MR. KELLAHIN: We provided that initially, and then on reflection, found that this curve was a better 23 24 way to approach the economic issue. And, so, I'll provide 25 the Examiner with language that we think works.

1 We have suggested as a draft an appendix behind 2 Exhibit 1, but I'd like to fine-tune that, and we'll just 3 put it within the context of an entire order for your 4 consideration. 5 EXAMINER STOGNER: If there's nothing 6 further, Mr. Kellahin, then I'll take this matter under 7 advisement and await your rough draft. 8 MR. KELLAHIN: Thank you. 9 (And the proceedings concluded.) 10 11 12 13 14 I do hereby certify that the foregoing is 15 a complete record of the proceedings in 16 the Examiner hearing of Case Nor 10745- 10754 heard by me on 19 17 , Examiner 18 Oil Conservation Division 19 20 21 22 23 24 25

1	CERTIFICATE OF REPORTER
2	
3	STATE OF NEW MEXICO)
4) SS. COUNTY OF SANTA FE)
5	
6	I, Susan B. Sperry, Certified Court Reporter and
7	Notary Public, HEREBY CERTIFY that the foregoing
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14	I FURTHER CERTIFY that I am not a relative or
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17	final disposition of this matter.
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23	Junan & Aperry
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