

NEW MEXICO OIL CONSERVATION COMMISSION

COMMISSION HEARING

SANTA FE, NEW MEXICO

Hearing Date

AUGUST 19, 1993

Time: 9:00 A.M.

NAME	REPRESENTING	LOCATION
W. T. Kellahin Karen Quinlan Maurice Termini JB FRASER	Kellahin & Kellahin Law Office of Karen Byrnes + Co. Meridian Oil	Santa Fe SF Farmington
Arden Walker	✓	✓
GARY GREER Kirk Cull	AMERADIA HESS CORP. Phillips Pet.	MONUMENT, N.M. Farmington
Ken Folse	MARATHON OIL CO,	MIDLAND, TX,
William A. Carr	Campbell, Carr, Foy + Gindler	Santa Fe
Alan W. Bolberry	Chevron U.S.A.	Midland, TX
Robert E. Green	Chevron U.S.A.	Midland, TX
Brian A. Hays	" "	" "
Reed Gilmore	" "	" "
LO Van Ruan	OCD/EMPR	SF
Rick Hail	Oruk Energy	Dallas
Tom Strickland	" "	" "
Bill Hawkins	Amoco Production's	Denver
Victor T. Lyon	Gas Co of NM	Santa Fe

## NEW MEXICO OIL CONSERVATION COMMISSION

COMMISSION HEARINGSANTA FE, NEW MEXICOHearing Date AUGUST 19, 1993 Time: 9:00 A.M.

NAME	REPRESENTING	LOCATION
Don Campbell John Roffers Lisa Gholston C. Michael ...	Marathon Oil Co Ken M. ... Marathon Oil Co Manzano Oil Corp	... ... Midland Roswell

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NEW MEXICO OIL CONSERVATION COMMISSION  
STATE OF NEW MEXICO  
CASE NO. 10799

IN THE MATTER OF:

Accepting Nominations and Other  
Evidence and Information to Assist  
the Commission in Determining the  
October 1993 through March 1994 Gas  
Allowables in Prorated Fields in  
New Mexico.

BEFORE:

CHAIRMAN WILLIAM LEMAY  
COMMISSIONER BILL WEISS  
COMMISSIONER JAMI BAILEY  
FLORENE DAVIDSON, Staff Specialist

State Land Office

August 19, 1993

REPORTED BY:

CARLA DIANE RODRIGUEZ  
Certified Court Reporter  
for the State of New Mexico

**ORIGINAL**

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ALSO APPEARING:

MR. VICTOR T. LYON

## I N D E X

		PAGE
1		
2	APPEARANCES	2
3		
4	WITNESSES FOR THE OCD	
5	1. <u>RONALD H. MERRETT</u>	
6	Examination by Mr. Stovall	8
7	Examination by Comm. Weiss	12
8	Examination by Chairman LeMay	13
9	2. <u>LARRY O. VAN RYAN</u>	
10	Examination by Mr. Stovall	15
11	Examination by Comm. Weiss	25
12		
13	<u>EXHIBITS INTRODUCED:</u>	
14	Exhibit 1	17
15	Exhibit 2	17
16	WITNESSES FOR PHILLIPS PETROLEUM CORPORATION:	
17	1. <u>KIRK CZIRR</u>	
18	Examination by Mr. Kellahin	27
19	Examination by Comm. Weiss	35
20	Examination by Chairman LeMay	36
21		
22	<u>EXHIBITS INTRODUCED:</u>	
23	Exhibit 1	28
24	Exhibit 2	31
25	WITNESSES FOR AMOCO PRODUCTION CORPORATION:	
26	1. <u>JAMES WILLIAM HAWKINS</u>	
27	Examination by Mr. Carr	39
28	Examination by Comm. Bailey	44
29	Examination by Comm. Weiss	45
30		
31	<u>EXHIBITS INTRODUCED:</u>	
32	Exhibit 1	40
33	Exhibit 2	41
34	WITNESSES FOR MERIDIAN OIL CORPORATION:	
35	1. <u>JAMES B. FRASER</u>	
36	Examination by Mr. Kellahin	45
37	Examination by Comm. Weiss	56
38	Examination by Chairman LeMay	56

1	<u>EXHIBITS INTRODUCED:</u>		
	Exhibit 1		46
2	Exhibit 2		47
	Exhibit 3		49
3	Exhibit 4		50
	Exhibit 5		53
4	Exhibit 6		54
5	WITNESSES FOR CHEVRON, U.S.A.:		
6	1.	<u>ROBERT E. GREEN</u>	
		Examination by Mr. Carr	58
7		Examination by Comm. Bailey	65
		Examination by Chairman LeMay	66
8			
		<u>EXHIBITS INTRODUCED:</u>	
9		Exhibit 1	60
		Exhibit 2	61
10		Exhibit 3	62
		Exhibit 4	63
11		Exhibit 5	64
12	2.	<u>ALAN BOHLING</u>	
		Examination by Mr. Carr	68
13		Examination by Comm. Bailey	78
		Examination by Comm. Weiss	79
14		Examination by Mr. LeMay	80, 84
		Examination by Mr. Stovall	84
15			
		<u>EXHIBITS INTRODUCED:</u>	
16		Exhibit 1E	70
		Exhibit 2E	71
17		Exhibit 3E	71
		Exhibit 4E	74
18		Exhibit 5E	75
		Exhibit 6E	76
19		Exhibit 7E	77
20	WITNESSES FOR MARATHON OIL COMPANY:		
21	1.	<u>RONALD J. FOLTZ</u>	
		Examination by Mr. Kellahin	85, 135
22			
		<u>EXHIBITS INTRODUCED:</u>	
23	Exhibit 1	87	Exhibit A 137
	Exhibit 2	87	Exhibit B 138
24	Exhibit 3	89	Exhibit C 138
	Exhibit 4	89	
25	Exhibit 5	89	

## 1 WITNESSES FOR KERR-MCGEE CORPORATION:

2	1.	<b><u>JOHN ROEFFERS</u></b>	
		Examination by Ms. Aubrey	90
3		Examination by Comm. Bailey	105
		Examination by Comm. Weiss 106,	111
4		Examination by Chairman LeMay	107

5		<b><u>EXHIBITS INTRODUCED:</u></b>	
		Exhibit 1	92
6		Exhibit 2	95
		Exhibit 3	100
7		Exhibit 4	101
		Exhibit 5	102
8		Exhibit 6	104

## 9 WITNESSES FOR CHEVRON, U.S.A.:

10	1.	<b><u>BRIAN HUZZEY</u></b>	
		Examination by Mr. Carr	113
11		Examination by Comm. Weiss	124

12		<b><u>EXHIBITS INTRODUCED:</u></b>	
		Exhibit 1	115
13		Exhibit 2	116
		Exhibit 3	117
14		Exhibit 4	118
		Exhibit 5	120
15		Exhibit 6	120
		Exhibit 7	121
16		Exhibit 8	121
		Exhibit 9	122
17		Exhibit 10	122
		Exhibit 11	122

## 18 WITNESSES FOR ORYX ENERGY COMPANY:

19	1.	<b><u>RICK HALL</u></b>	
20		Examination by Mr. Kellahin	126

21	2.	<b><u>TOM STRICKLAND</u></b>	
		Examination by Mr. Kellahin	131
22		Examination by Chairman LeMay	134

23		<b><u>EXHIBITS INTRODUCED:</u></b>	
		Exhibit 1	127
24		Exhibit 2	128
		Exhibit 3	128
25		Exhibit 4	129
		Exhibit 5	133

1                   CHAIRMAN LEMAY: We'll now call case  
2 10799. Case 10799, the Oil Conservation has  
3 called this case to accept nominations and other  
4 evidence and information to assist the Commission  
5 in determining the October 1993 through March  
6 1994 gas allowables, in prorated fields in New  
7 Mexico.

8                   I'll call for appearances in Case  
9 10799.

10                  MR. STOVALL: Mr. Chairman, Robert G.  
11 Stovall of Santa Fe, on behalf of the Division.

12                  CHAIRMAN LEMAY: Additional  
13 appearances?

14                  MS. AUBREY: Karen Aubrey, Santa Fe, on  
15 behalf of Kerr-McGee Corporation.

16                  MR. CARR: May it please the  
17 Commission, William F. Carr with the Santa Fe Law  
18 Firm, Cambell, Carr, Berg and Sheridan. I would  
19 like to enter my appearance on behalf of Amoco  
20 Production Company and Chevron, USA.

21                  CHAIRMAN LEMAY: Additional  
22 appearances? Mr. Kellahin?

23                  MR. KELLAHIN: Mr. Chairman, I'm Tom  
24 Kellahin of the Santa Fe law firm of Kellahin &  
25 Kellahin, appearing today on behalf of Phillips



1     Petroleum Company, Meridian Oil, Inc., Marathon  
2     Oil Company, in association with Mr. Dow  
3     Campbell, and ORYX Energy Company.

4             CHAIRMAN LEMAY:   Additional  
5     appearances?

6             MR. LYON:   I'm Victor T. Lyon appearing  
7     for Gas Company of New Mexico.  We're just here  
8     to listen.

9             CHAIRMAN LEMAY:   No testimony, Mr.  
10    Lyon?

11            MR. LYON:   No.

12            CHAIRMAN LEMAY:   Additional  
13    appearances?  Okay.  As usual, we will take this  
14    in relationship to the fields, so those of you  
15    that have testimony for the different fields,  
16    come forth and give the testimony.  You will be  
17    back and forth if you represent a client on more  
18    than one field.

19            We'll begin, Mr. Stovall, with the  
20    Division's witnesses.

21            MR. STOVALL:   Mr. Chairman, I would ask  
22    that we swear the witnesses.

23            CHAIRMAN LEMAY:   All those who will  
24    give testimony, please stand and raise your right  
25    hand.

1 [And the witnesses were duly sworn.]

2 MR. STOVALL: Before I present a  
3 technical witness, Mr. Chairman, as we have done  
4 in the past, I would like to ask Mr. Ron Merrett  
5 to come forward and give an overview of the New  
6 Mexico gas market situation.

7 CHAIRMAN LEMAY: Mr. Stovall, does that  
8 imply that Mr. Merrett is not a technical  
9 witness?

10 THE WITNESS: I'll address that.

11 **RONALD H. MERRETT**

12 Having been first duly sworn upon his oath, was  
13 examined and testified as follows:

14 EXAMINATION

15 BY MR. STOVALL:

16 Q. While you're getting organized, Mr.  
17 Merrett, would you please state your name and  
18 place of residence?

19 A. Yes. My name is Ron Merrett. I'm  
20 director of the Office of Interstate Natural Gas  
21 Markets. Today, I'll present a brief overview of  
22 the natural gas market as we perceive it from New  
23 Mexico.

24 Q. Please proceed, Mr. Merrett. You do  
25 have some slides to show the audience and the

1 Commission with respect to changes since the last  
2 hearing, is that correct?

3 A. That is correct. I can't recall now, I  
4 think it's probably eight slides, and that will  
5 constitute my testimony.

6 These slides are similar to the slides  
7 which I presented at the last hearing six months  
8 ago, and they're simply an update to include the  
9 months since the last hearing. Our latest month  
10 of information is, in fact, May of 1993.

11 As you see from this graph, New  
12 Mexico's production is as high, or perhaps a  
13 little higher, than the previous year, which was  
14 probably 1977. This is annual production by  
15 year.

16 The next slide is one you needn't dwell  
17 on, it simply shows the reserve to production  
18 ratio in New Mexico is still considerably higher  
19 than any other of the states in the U.S.

20 This slide simply shows the location of  
21 New Mexico's gas principally in the San Juan  
22 Basin. The reserves are more than three-fourths  
23 in the San Juan Basin.

24 This slide shows natural gas production  
25 by basin, and the only significance of this slide

1 is that production is roughly one-third in the  
2 Permian conventional gas, one-third in San Juan  
3 in conventional gas, and one-third in San Juan  
4 coal seam gas. That continues to be the  
5 proportion.

6 I think it's interesting to note that  
7 the Permian production continues to stay fairly  
8 level, just above 40 billion Mcf a month.

9 This simply shows the monthly gas  
10 production by year. The most significant thing  
11 here is the orange bars show the monthly  
12 production for 1993, and May of 1993 is the  
13 highest month we've had in quite a long time.  
14 Production continues to remain at a high level.

15 This is the production estimate by  
16 month. This is our own estimate. May is there,  
17 and it's actual production up to May. Our  
18 forecast is that the estimated production will  
19 continue with very little increase.

20 I think the most significant thing is,  
21 there's very little seasonal variation. No  
22 seasonal variation in the casinghead. Very  
23 little seasonal variation in the Permian  
24 conventional. There is some seasonal variation  
25 in the San Juan conventional, which seems to take

1 the swings, and the San Juan coal seam shows very  
2 little seasonal swing.

3 This slide attempts to project  
4 production. And I emphasize production and not  
5 demand. It projects production over the next  
6 year. And there is some seasonal variation  
7 shown. This is a projection, and my economist  
8 tells me that's not the same thing as a forecast,  
9 though I'm not quite sure why. This is our own  
10 projection, and there is a fairly wide band of  
11 uncertainty surrounding the projection. However,  
12 the significant thing is that the forecast  
13 production has continued to rise.

14 Final slide is our projection carried  
15 on into 1994. In 1992, we produced 1.248 Tcf in  
16 the state. We project 1.385 Tcf in the state in  
17 1993, and that projection appears to be fairly in  
18 line with our forecast the way production is  
19 going.

20 If you extrapolate that to 1994, and  
21 we've no reason not to, the projection is nearly  
22 one and a half Tcf in 1994.

23 That concludes my series of slides, and  
24 my testimony.

25 Q. The information you've presented is

1 sort of, to assume an economist's view, a macro  
2 picture of the gas production and markets for New  
3 Mexico, is that correct?

4 A. Well, what it does, yes, that's  
5 correct, it says New Mexico is simply meeting  
6 part of the demand of the North American gas  
7 market. The demand is not in New Mexico, but it  
8 is in North America, and we meet part of that  
9 demand.

10 Q. Demand for New Mexico gas as opposed to  
11 New Mexico demand, yes.

12 And would it be correct to say, from  
13 the information and from your projections, that  
14 at least for the next six months, production and  
15 potentially demand for gas are going to remain  
16 steady or increase slightly overall?

17 A. There will be an increase, yes.

18 MR. STOVALL: I have nothing further.

19 CHAIRMAN LEMAY: Thank you, Mr.

20 Stovall. Questions of Mr. Merrett? Any

21 questions by Commissioner Weiss?

22 COMMISSIONER WEISS: Yes.

23 EXAMINATION

24 BY COMMISSIONER WEISS:

25 Q. On your forecast, how do you do it?

1           A.       It's done under my direction, Mr.  
2 Weiss, and it's done partly on the basis of the  
3 Futures pricing market, it's done partly on the  
4 basis of our information we gather from federal  
5 government, and from trade publications, and from  
6 other forecasts of demand in the United States.

7                   And also the California Gas Report,  
8 which gives demand for California, where probably  
9 80 percent of New Mexico's gas still goes. It's  
10 done from a combination of demand forecasts, plus  
11 our own knowledge of wells connected and to be  
12 connected in the state.

13                   So, it's a combination of data, and  
14 it's our own forecast, and it's nobody else's.

15                   COMMISSIONER WEISS: Thank you.

16                   CHAIRMAN LEMAY: Mr. Merrett, just one  
17 question.

18                                   EXAMINATION

19                   BY CHAIRMAN LEMAY:

20                   Q.       In terms of the market in California,  
21 there's a projected overcapacity, I assume, at  
22 some point in time, maybe when the PGT expansion  
23 is completed. How does that relate to the next  
24 six months in our forecast for demand? Is there  
25 any timing when that expansion would be in place?

1 to bring more Canadian gas into California?

2 A. My recollection is that the timing of  
3 that expansion will not be complete until after  
4 the proration period we're looking at. So, it  
5 would not affect it.

6 There is some service of pipeline  
7 capacity into California, however, so as far as I  
8 know, there's no, on an average basis, there's no  
9 reason to suppose any restriction of pipeline  
10 space into California. There will be spot  
11 shortages caused by plant outages or compressor  
12 stations being down, or whatever.

13 In principle, there's no reason why  
14 pipeline capacity would restrict supply or  
15 restrict demand from the state.

16 Q. Assuming that PGT remains, it's full,  
17 and I guess you can't get any more gas in it, the  
18 logical place to meet California's demand would  
19 be the Southwest supplies and possibly Rocky  
20 Mountain?

21 A. That's correct, Mr. Chairman.

22 CHAIRMAN LEMAY: Thank you, Mr.  
23 Merrett. Additional questions? If not, the  
24 witness may be excused.

25 You may call your next witness, Mr.



1 Stovall.

2 MR. STOVALL: Mr. Van Ryan.

3 **LARRY VAN RYAN**

4 Having been first duly sworn upon his oath, was  
5 examined and testified as follows:

6 EXAMINATION

7 BY MR. STOVALL:

8 Q. Would you please state your name and  
9 place of residence?

10 A. My name is Larry Van Ryan, and I live  
11 in Santa Fe, New Mexico.

12 Q. How are you employed, Mr. Van Ryan?

13 A. I'm employed by the Oil Conservation  
14 Division as a chief petroleum engineer.

15 Q. Mr. Van Ryan, among your duties as the  
16 chief petroleum engineer for the Division, are  
17 you responsible for the gas proration system and  
18 allowable determinations?

19 A. Yes.

20 Q. Would you explain briefly any changes  
21 in the technical process by which those  
22 determination schedules have been generated this  
23 time?

24 A. We're in the process of taking, the  
25 OCD, the State Land Office and the Taxation &

1 Revenue Department, into a combined computer data  
2 base called OnGuard.

3 We have accelerated one program in  
4 OnGuard, which is gas proration. We have used a  
5 combination of what we're able to get out of  
6 OnGuard, for verification of data with our  
7 existing systems. That's the only change that  
8 we've had.

9 But, I feel that we are progressing,  
10 and we have probably less errors in the new  
11 system than we've had in the old one.

12 Q. Again, this is primarily informational,  
13 but the exhibits that we are about to present, is  
14 it correct that they were generated on the  
15 OnGuard system?

16 A. Well they're a combination. They were  
17 a combination of OnGuard and hand calculations  
18 using our old system, to arrive at the actual  
19 production figures.

20 Q. And is it your opinion in reviewing  
21 that that the base of information that goes into  
22 this is more reliable than has been even in the  
23 past?

24 A. I think it is.

25 Q. And this will set the base for future

1 such schedules to be generated through OnGuard,  
2 which will start out with, again, more reliable  
3 information and a program that's understood to  
4 calculate correctly?

5 A. Right. Three of the last couple of  
6 proration periods we've made some changes, as  
7 most everybody is aware, and I feel that we have  
8 more accurate data than we've had for quite some  
9 time.

10 Q. Mr. Van Ryan, turning specifically, we  
11 have prepared exhibits in connection with this  
12 hearing, have we not?

13 A. Yes, we have.

14 Q. And just for information, Exhibit 1 has  
15 been denominated for the southeast New Mexico  
16 prorated gas pools, and Exhibit 2 has been  
17 denominated for the northwest prorated gas  
18 pools.

19 Mr. Van Ryan, have there been any  
20 changes, from Exhibits 1 and 2, from those  
21 schedules which were sent out with the notice of  
22 this hearing?

23 A. There are, essentially, no changes.  
24 There's one correction in Exhibit 1, for  
25 Southeast New Mexico. On line 4, under the

1 Eumont pool. We had made a correction on line 1  
2 and it was not carried over to line 4. It should  
3 read 2,681,478. We had a typo there, which was  
4 2,631,000. The figures below that are still  
5 correct. It was just a typo that occurred.

6 Q. And that correction has been made on  
7 Exhibit 1, which is distributed today?

8 A. It has.

9 Q. Let's turn first to the Northwest  
10 pools, and would you just briefly summarize the  
11 information that is contained on Exhibit 2, and  
12 explain how it's used and what the bottom line  
13 figure is, if you will?

14 A. Okay. The basis for the proration  
15 system in the State of New Mexico is to base our  
16 figures on the production for a six-month period,  
17 the previous, the year-ago six-month period, so  
18 that we're talking about equivalent times of  
19 year. This was based originally on the fact that  
20 we had hired a man in the wintertime in higher  
21 production, and we felt that the two periods  
22 reflected winter production and summer  
23 production.

24 So, for this period which we're talking  
25 about, which will be the October 93 to March 94

1 production, we have taken the average monthly  
2 sales for the period from October 92 through  
3 March of 93, and these are shown on line 1 on  
4 Exhibit 2.

5 Q. These are actual sales figures for the  
6 previous October through March period?

7 A. That's correct.

8 Q. We probably see this with a place in  
9 there for adjustments and nominations. However,  
10 we don't advise any at this time. This is what  
11 this hearing is for. Beyond that, we go through  
12 a series of calculations to determine what the  
13 allowable would be or what the F1 and F2 factors  
14 are.

15 Those will be shown on line 9, where we  
16 have the acreage factor, which we sometimes call  
17 the F1 factor, and on line 10, which is the  
18 acreage times deliverability factor. It's most  
19 normally referred to as the F2 factor.

20 All of these figures are historical  
21 figures, where we take the total average for the  
22 sales for the pool, we determine a number of  
23 non-marginal gas proration units, we deduct that  
24 production out of that figure, to come up with a  
25 monthly marginal pool allowable. We do not

1 prorate the marginal pools, marginal gas  
2 proration units. We only prorate the  
3 non-marginals.

4 The figures below line 6 are calculated  
5 with the non-marginal pool volumes. That's how  
6 we arrive at lines 9 and 10, which are the  
7 critical numbers here.

8 Q. So, in order to determine the allowable  
9 for any particular gas proration unit, an  
10 operator could use the appropriate mathematical  
11 formula, with lines 9 and 10, to determine what a  
12 specific gas proration unit would be allowed to  
13 produce?

14 A. That's correct.

15 Q. Are these specific recommendations of  
16 the Division for an allowable for these four  
17 pools in the Northwest?

18 A. These are what we would recommend just  
19 working off of historical data. I think the  
20 purpose of this hearing is to take adjustments,  
21 if there is some testimony that would prove that  
22 these should be changed.

23 Q. These are really a starting point?

24 A. Yes.

25 Q. Just for the purpose of the use of the

1 form, it really doesn't matter where you make  
2 adjustments, really? We could, for all practical  
3 purposes, eliminate line 2, called "nominations,"  
4 is that not correct?

5 A. Normally, yes, that has kind of fallen  
6 out. That's a carry over from the time when the  
7 pipelines were the purchasers and they came in  
8 and nominated the amount of gas they expected to  
9 purchase. It's a carry over from the old system.

10 Q. Do you have anything further you wish  
11 to add with respect to the Northwest pools in  
12 Exhibit 2?

13 A. No. I believe everything in there is  
14 based on historical data, and lines 9 and 10 are  
15 what we calculate out of that.

16 Q. Now, would you turn to the Southeast,  
17 Exhibit 1. Is it essentially the same process to  
18 go through to gather the information and insert  
19 historical data into the exhibit?

20 A. The same rules apply, as far as how we  
21 set the average pool sales. And the allowables,  
22 then, are only based on acreage in the Southeast  
23 part of the state. So, instead of having an F1  
24 and an F2 factor, we simply have an F1 factor,  
25 but we do everything else identical.

1 Q. Once again, in order to determine an  
2 allowable, the operator can take the information  
3 on line 8, multiply it times the number of  
4 acreage factors for a particular gas proration  
5 unit, and determine the monthly allowable?

6 A. That's correct.

7 Q. And again, this is based strictly on  
8 the historical data for the light production  
9 period for the previous year?

10 A. Yes.

11 Q. These are not specific recommendations,  
12 but rather a starting point for the Division, to  
13 which adjustments may be made based upon evidence  
14 taken at this hearing?

15 A. Yes.

16 Q. Do you have anything further which you  
17 wish to add to your testimony regarding these  
18 exhibits?

19 A. Well, I would like to point out on this  
20 Exhibit 1, that we have three pools in the  
21 Southeast part of this state, which have minimum  
22 allowables. They have the asterisks just above  
23 the pool.

24 The figures that we have for F1 factors  
25 are obviously below those. That doesn't mean



1 that's what we'll come up with. These would  
2 normally be adjusted by the Commission, to go  
3 ahead and give the minimum allowables. There's  
4 no change in those pools just because of this  
5 hearing, for the minimum allowables.

6 Q. In other words, even in those pools  
7 with the minimum, you've just taken the  
8 historical sales from the prior hearing?

9 A. Right.

10 Q. And, based upon the previous orders  
11 established in the allowable, there will be an  
12 adjustment entered on line 3 to raise those  
13 allowables to the minimum for the pool?

14 A. That's correct. We have two of the  
15 pools which are below the minimum, and one pool  
16 which is above, but we won't lower the one above,  
17 because that's how it calculates out. Minimum  
18 is, as I said, a minimum. That's just the floor.

19 Q. I notice also, on line 7, it lists the  
20 number of the non-marginal acreage factors in  
21 each pool, is that correct?

22 A. Yes.

23 Q. And I noticed that there are two pools,  
24 the Carlsbad Morrow and the Catclaw Draw Morrow  
25 which show no figures on line 7. Can you explain

1 that?

2 A. That's correct. When we did our  
3 calculations with the prior allowables that we  
4 had set, when we reclassified the wells and  
5 checked their over- and underproduction, we  
6 determined at this time there was not any  
7 non-marginal gas proration units in those two  
8 pools.

9 So we made a recommendation, on line 8,  
10 to establish some F1 factors that are above, in  
11 most cases here, above any of the wells that  
12 produce in the field, but it still allows us to  
13 do a calculation and a check. It would also, in  
14 the event of a new well or recompletion in one of  
15 these zones, it would give us the information or  
16 the ability to keep track of that well and be  
17 sure we're not allowing somebody to come in with  
18 a real barn burner and perhaps drain somebody  
19 else.

20 Q. Does that complete your testimony with  
21 respect to these exhibits?

22 A. Yes, it does.

23 MR. STOVALL: Mr. Chairman, I have no  
24 further questions. I would offer Exhibits 1 and  
25 2 into the record, as the preliminary

1 recommendations of the Division.

2 CHAIRMAN LEMAY: Without objection,  
3 Exhibits 1 and 2 will be entered into the  
4 record. Questions of the witness?

5 Commissioner Bailey?

6 COMMISSIONER BAILEY: No.

7 CHAIRMAN LEMAY: Commissioner Weiss?

8 COMMISSIONER WEISS: Two things.

9 EXAMINATION

10 BY COMMISSIONER WEISS:

11 Q. Tell me which one is F1 and F2 again?

12 A. F1 would be line 9, which is the  
13 acreage factor alone on Exhibit 2, and F2 would  
14 be line 10 on Exhibit 2.

15 Q. And then on Exhibit 1, which are they?

16 A. Exhibit 1 only has an F1 factor and  
17 that's line 8.

18 Q. These exhibits, neither one allows for  
19 this projected forecast increase of Ron  
20 Merrett's?

21 A. No. These are all historical figures  
22 only.

23 COMMISSIONER WEISS: Thank you.

24 CHAIRMAN LEMAY: Additional questions?  
25 I have none.

1           The witness may be excused. Thank you.  
2 Do you have any preference whether we go  
3 Northwest first or Southeast?

4           MR. STOVALL: Mr. Chairman, we've  
5 gotten into a discussion about doing the  
6 Northwest first. There are fewer parties and  
7 fewer pools.

8           CHAIRMAN LEMAY: Sure, that's fine.  
9 We'll do the Northwest first, then.

10          CHAIRMAN LEMAY: The first field in the  
11 Northwest will be the Basin Dakota. Do you wish  
12 to call your witness, Mr. Kellahin.

13          MR. KELLAHIN: Thank you, Mr.  
14 Chairman. I have visited with Mr. Carr, and he  
15 and I have all the presentations in the  
16 Northwest. I believe the way the witnesses have  
17 organized their exhibits and presentations, they  
18 would deal better with both pools presented with  
19 each individual witness. And we're dealing with  
20 Basin Dakota and the Blanco Mesaverde. Is that  
21 all right?

22          CHAIRMAN LEMAY: Fine, whichever is  
23 easier for you all.

24                                   **KIRK CZIRR**

25 Having been first duly sworn upon his oath, was

1 examined and testified as follows:

2 EXAMINATION

3 BY MR. KELLAHIN:

4 Q. Mr. Czirr, for the record, would you  
5 please state your name and occupation?

6 A. Kirk Czirr, field development  
7 supervisor for Phillips Petroleum Company in  
8 Farmington.

9 Q. On prior occasions, have you testified  
10 as an expert in prorating matters before the  
11 Oil Conservation Commission, concerning the  
12 prorated gas pools in Northwest New Mexico?

13 A. Yes, sir, I have.

14 Q. Pursuant to your duties and employment  
15 by your company, have you continued to be  
16 familiar with and informed on the prorated gas  
17 pools and your company's production and  
18 involvement in those pools?

19 A. I have.

20 MR. KELLAHIN: We tender Mr. Czirr as  
21 an expert witness.

22 CHAIRMAN LEMAY: His qualifications are  
23 acceptable.

24 Q. Let's look at Dakota first.

25 A. Okay.

1           Q.       And before we talk about specific  
2 reasons, let's have you describe for the  
3 Commission any adjustment that you propose to  
4 make in that pool. And, if an adjustment is  
5 proposed, what that number is.

6           A.       Okay. On my Exhibit No. 1, the  
7 left-hand column of numbers, which is for the  
8 Basin Dakota pool, Phillips Petroleum is  
9 recommending approximately a 68 million cubic  
10 feet per month adjustment. On paper it's 67593,  
11 in addition to the OCD-proposed non-marginal pool  
12 allowable of 182 million cubic feet per month.

13                   This give us a total non-marginal pool  
14 allowable of 250 million cubic feet per month.

15           Q.       To do the arithmetic and the  
16 calculation, you would simply take line 1, off of  
17 the Division spreadsheet for this pool, the 9.5  
18 Bcf?

19           A.       Yes.

20           Q.       And then you would add in the  
21 67,000-plus adjustment?

22           A.       Yes, sir.

23           Q.       And whatever that total is, then,  
24 becomes the monthly pool allowable?

25           A.       Yes, sir.

1           Q.       All right. Having understood the  
2 mechanics, describe for us the reason to make the  
3 adjustment, in your opinion.

4           A.       First of all, with the proposed  
5 adjustment in place, it brings the overall gas  
6 proration unit allowables in line with those  
7 granted during the 1992-1993 winter period a year  
8 ago. So we're being consistent there.

9                    We feel that that is the minimum level  
10 necessary to continue to encourage development of  
11 individual gas proration units. It would still,  
12 certainly, call for proration. For  
13 deliverabilities in excess of 700 Mcf a day, we  
14 would still be subject to curtailment.

15          Q.       You're specifically addressing the  
16 non-marginal wells?

17          A.       Yes.

18          Q.       All right. Give us an indication, if  
19 you will, in a general way, for the non-marginal  
20 GPUs, I understand is subject to adjustment for  
21 deliverability, but on a daily basis, with this  
22 adjustment, what's the volume of gas we're  
23 dealing with?

24          A.       I'm not sure I understand.

25          Q.       Take a non-marginal GPU. On a daily

1 basis, what's the cap?

2 A. Okay. Again, for a 700 Mcf a day  
3 deliverability, with the adjustment, our  
4 allowable would be 98 percent of that  
5 deliverability. Without the adjustment, it would  
6 only be 72 percent of that deliverability.

7 Q. So, on average, you're dealing with a  
8 non-marginal GPU subject to adjustment for  
9 deliverability, that's making 700 Mcf a day or  
10 less?

11 A. Right.

12 Q. And the reason to have that number in  
13 place, then, is an incentive to do what, Mr.  
14 Czirr?

15 A. For continued development of gas  
16 proration units throughout the pool. Phillips  
17 recently spudded our first of nine Basin Dakota  
18 infill wells. These have very marginal  
19 economics, and we did it on the premise that we  
20 would be able to produce the wells with minimal  
21 adverse effects from curtailment.

22 Q. And this adjustment, then, will  
23 maintain the level of allowable for the  
24 non-marginal wells that you enjoyed for the last  
25 comparable period?



1 A. Yes, sir.

2 Q. Let's go now to the MesaVerde pool.

3 A. Okay.

4 Q. Give us the number. What is the  
5 proposed adjustment, if any, in the schedule?

6 A. The proposed adjustment is a positive  
7 437 million cubic feet. Which, added to Line No.  
8 1 in the OCD schedule, would give you an overall  
9 pool allowable of 17.15 Bcf a month.

10 Q. Having understood your method, what is  
11 the reason for the adjustment?

12 A. Again, this is consistent with the  
13 allowables granted in the previous winter period,  
14 1992 to 1993. And again, these allowables  
15 provided sufficient incentive for additional  
16 development in the MesaVerde.

17 Q. You've summarized that information on  
18 Exhibit No. 1. I will not have you repeat it.  
19 Turn to Exhibit 2, and help us understand that  
20 display.

21 A. Okay. The main thing I'm trying to do  
22 with Exhibit No. 2 is point out that, really, in  
23 both pools, the Basin Dakota and the Blanco  
24 MesaVerde, we're dealing with an extremely small  
25 number of non-marginal wells, non-marginal GPUs.

1           You have approximately 3800 wells, not  
2 GPUs, but wells within each pool. What we've  
3 done is taken Dwights production data for the  
4 Blanco MesaVerde and the Basin Dakota pools for  
5 the year 1992, and sorted that data, to arrive at  
6 a production distribution, which is shown on  
7 Exhibit No. 2.

8           The bar graphs associated with this  
9 exhibit, they go along with the left vertical  
10 axis on this exhibit, showing the number of  
11 MesaVerde and Dakota wells which produced within  
12 a specific volume range during the year 1992, and  
13 that volume range went from 1 million cubic feet  
14 up to just over 250 million cubic feet for the  
15 year. Anything over 250 million cubic feet was  
16 lumped in at that point.

17           The line graphs associated with this  
18 exhibit, they go with the right vertical axis,  
19 and they show the cumulative number of MesaVerde  
20 and Dakota wells, with 1992 gas production less  
21 than or equal to a specific level. So, it's kind  
22 of a cumulative distribution.

23           The main point of the exhibit is that  
24 you'll note that out of the plus or minus 3800  
25 wells in each pool, the vast, vast majority of

1 those wells were producing at very low levels  
2 during the year 1992. All we're really  
3 curtailing is the very few wells on the far  
4 right-hand side of the graph.

5 I believe that this is consistent with  
6 the number of non-marginal GPUs which the OCD has  
7 represented in their mailings to us. It becomes,  
8 when you're dealing with that small number of  
9 non-marginal wells, in Phillips Petroleum's  
10 opinion, the primary concern should be  
11 establishing allowables based on what effect it  
12 has to the individual GPU allowable.

13 When you're looking at an overall pool  
14 allowable, you can lose 68 million cubic feet  
15 adjustment, which was recommended for the Basin  
16 Dakota pool, you can lose that very easily, out  
17 of approximately 10 Bcf per month. But, since  
18 you're dealing with such a small number of  
19 non-marginal wells, it has a very large effect on  
20 those non-marginal wells and our ability to  
21 continue to develop the pool.

22 Q. That's not a criticism of the system,  
23 is it? It's simply a reaction of the function of  
24 the system?

25 A. Right. I think it's just, as we've

1 produced these pools, more and more wells have  
2 declined over the tens of years to the point  
3 where the production levels are moderately low;  
4 and we are, rightfully so, only prorating a few  
5 of the larger wells on the right-hand side of  
6 this exhibit.

7 Q. If the Commission approves the  
8 adjustment, is there market demand sufficient to  
9 accept the additional production that you're  
10 requesting from the pools?

11 A. Yes, sir, in our opinion there is.

12 Q. Do you see any pipeline restrictions or  
13 physical limitations on the ability of the system  
14 to handle that additional gas that you're  
15 proposing to be applied into these pools?

16 A. No, sir.

17 MR. KELLAHIN: That concludes my  
18 examination of Mr. Czirr. We move the  
19 introduction of his Exhibits 1 and 2.

20 CHAIRMAN LEMAY: Exhibits 1 and 2 will  
21 be admitted into the record without objection.

22 Questions of the witness?

23 Commissioner Bailey? Commissioner Mr.  
24 Weiss?

25

## EXAMINATION

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BY COMMISSIONER WEISS:

Q. If I read this graph right, there's only a handful of wells--none of them make a million a day, huh?

A. I believe, in the Blanco MesaVerde, there are just a very few wells that might be over a million a day, probably less than half a dozen. And they were grouped into the final data range on that graph.

Q. Now, these infill wells you're going to drill, and therefore want the increased allowable based on your expected performance from these wells, is that right?

A. Yes. Well, the allowable that we're requesting again is consistent with what we had a year ago, and results in, for these average type of wells that we're drilling, only moderate curtailment. And that's what we can live with and still justify drilling the wells.

Q. Are these proposed wells, the ones you're drilling now, do they fall geographically around the wells that are in the X axis at 255, on your chart?

A. Typically, okay, the wells we're

1 drilling right now are infill wells. The  
2 existing parent wells on those 320-acre gas  
3 proration units, typically have current  
4 production in the 200 to 350 Mcf a day range.

5 Q. Which is how many a year? I have  
6 trouble there.

7 A. Approximately 60 to 100 million cubic  
8 feet a year.

9 COMMISSIONER WEISS: That's all the  
10 questions I have. Thank you.

11 EXAMINATION

12 BY CHAIRMAN LEMAY:

13 Q. Mr. Czirr, is it your testimony that  
14 you had this allowable a year ago, but given the  
15 production statistics of your drilling program,  
16 of your anticipated production, it hasn't  
17 measured up to, maybe, what you expected?

18 Because the statistics show that you're  
19 not producing what you're requesting. Is it  
20 really an incentive to drill additional wells,  
21 like Commissioner Weiss said, or is there some  
22 mechanism in there that understates the  
23 production?

24 Can you get into that a little bit  
25 more? I'm not quite clear why you want the

1 higher allowable, if the wells haven't produced  
2 in the past.

3 A. Well, included in this bar chart, the  
4 only recent wells, at least that Phillips has  
5 drilled, were in the Basin Dakota. Those were  
6 year-end 1991, so they would be included in this  
7 1992 production. There were only three of those  
8 wells we drilled at that time. So, they hardly  
9 make an impact on this chart.

10 Two of those wells were very successful  
11 and they produced initially at rates of 5 million  
12 a day, and rapidly declined to approximately 700  
13 Mcf a day, and the third well was essentially a  
14 dry hole.

15 Q. So you've had some indications of  
16 success, and in order to justify the additional  
17 drilling, you would need roughly a 10 million a  
18 month allowable to do that in the Basin Dakota?  
19 Is that what you're saying?

20 A. 10 million a month? I'm not sure I  
21 understand. A 68 million adjustment was what we  
22 were asking for.

23 Q. But on a non-marginal well, what would  
24 that be, in terms of an average monthly?

25 A. Well, we would be curtailing at 700 Mcf

1 a day for GPU. Any deliverabilities in excess of  
2 that would be subject to the calendar.

3 Q. You would anticipate deliverabilities  
4 in excess of 700 Mcf a day, then?

5 A. Combined GPU, yes, taking into account  
6 the existing parent wells that are producing at  
7 300 Mcf a day, and initial deliverabilities in  
8 the, maybe, 1 million a day range and are rapidly  
9 declining, yes. So, we might have an overall GPU  
10 of 1300 or so for the first year.

11 Q. And this was in terms of an infill  
12 drilling program, so you're combining the two  
13 deliverabilities?

14 A. Yes, sir.

15 CHAIRMAN LEMAY: I have no further  
16 questions. Additional questions of the witness?

17 If not, he may be excused. Thank you,  
18 Mr. Czirr. Mr. Kellahin?

19 MR. CARR: May it please the  
20 Commission, at this time we would like to make a  
21 presentation for Amoco, and then Mr. Kellahin  
22 will follow with a presentation for Meridian.

23 CHAIRMAN LEMAY: That's fine, Mr.  
24 Carr. You may do so.

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**JAMES WILLIAM HAWKINS**

Having been first duly sworn upon his oath, was examined and testified as follows:

EXAMINATION

BY MR. CARR:

Q. Would you state your name for the record, please.

A. James William Hawkins.

Q. Mr. Hawkins, where do you reside?

A. In Denver, Colorado.

Q. By whom are you employed?

A. Amoco Production Company.

Q. In what capacity?

A. As a petroleum engineer.

Q. Do your duties with Amoco require that you familiarize yourself with the New Mexico prorationing system?

A. Yes, they do.

Q. And have you done that?

A. Yes, I have.

Q. Are you familiar with the production levels and trends for the prorated pools in the San Juan Basin?

A. Yes, I am.

Q. Have you previously testified before

1 this Division and had your credentials as a  
2 petroleum engineer accepted and made a matter of  
3 record?

4 A. Yes, I have.

5 Q. You've testified in prior allowable  
6 hearings, have you not?

7 A. Yes, I have.

8 Q. Are you familiar with the preliminary  
9 allowable figures for the prorated pools in  
10 Northwest New Mexico that have been proposed by  
11 the Oil Conservation Division?

12 A. Yes.

13 Q. And are you prepared to make  
14 recommendations to the Commission concerning  
15 adjustments to these preliminary figures?

16 A. Yes, I am.

17 MR. CARR: Are the witness'  
18 qualifications acceptable?

19 CHAIRMAN LEMAY: His qualifications are  
20 acceptable.

21 Q. Have you prepared certain exhibits for  
22 presentation here today?

23 A. Yes, I have.

24 Q. Would you refer to what has been marked  
25 as Amoco Exhibit No. 1, identify that exhibit,

1 and then review this for the Commission?

2 A. Yes. Amoco Exhibit No. 1 is a table  
3 showing the four prorated pools in the Northwest  
4 Basin, and it shows the NMOCD preliminary  
5 estimate which is based on the prior year's  
6 equivalent period production, or sales, I should  
7 say.

8 It also has a line for an  
9 Amoco-recommended adjustment for each of those  
10 pools, and then a resulting monthly pool  
11 allowable. We've looked at all four of the pools  
12 in the Northwest. The Basin Dakota, Blanco P.C.  
13 South and Tapacito. In our opinion, they all  
14 have a sufficient allowable to accommodate  
15 current production levels; insignificant  
16 differences from current production, in our  
17 opinion.

18 The Blanco MesaVerde allowable of 16.7  
19 million cubic feet per month is probably--or I  
20 guess it's Bcf per month, is, in our opinion, a  
21 little bit below current pool production from  
22 that pool. We would recommend a 500 million a  
23 month correction to bring that monthly pool  
24 allowable up to 17.2 Bcf.

25 Q. Would you now go to Amoco Exhibit No.

1 2, identify and review that for the Commission?

2 A. Yes, Exhibit No. 2 is a production  
3 curve from the Blanco MesaVerde pool. It's shown  
4 in Bcf a month, and it's shown over the last two  
5 and a half years.

6 You can see that, if you look in 1993,  
7 the actual production figures--and I should point  
8 out, this comes from the monthly statistical  
9 report published by the NMOCD, has actual  
10 production figures for January, February, March  
11 and April, and May and June we have shown with  
12 triangles, estimates of pool production based on  
13 Amoco's internal production figures from our  
14 operated wells.

15 And we've grossed up, on a ratio of our  
16 internal production to total pool production, to  
17 what we think the total pool production probably  
18 is. Our production increased in May and June,  
19 and, based on that, would reflect an increase in  
20 total pool production, May being roughly 18 Bcf a  
21 month, and June, approximately 17 Bcf a month.

22 And just our overall reflection of this  
23 curve is that production from the Blanco  
24 MesaVerde is holding fairly steady, around the 17  
25 Bcf a month range, maybe slightly higher in the

1 last couple of months' production that we have  
2 available.

3 So, it's on that basis that we would  
4 recommend the pool allowable be set at 17.2 Bcf,  
5 which is the current pool allowable for this  
6 period.

7 Q. Mr. Hawkins, if Amoco's recommendation  
8 is adopted, will that, in fact, bring the  
9 allowables more in line with the ability of this  
10 pool to produce?

11 A. I believe it will stay in line with the  
12 current production level, yes.

13 Q. Would these recommended allowables more  
14 accurately reflect the demand for natural gas  
15 from the pool?

16 A. Yes, I think they will.

17 Q. Do you have anything further to add to  
18 your testimony?

19 A. No. I do not.

20 Q. Were Exhibits 1 and 2 prepared by you?

21 A. Yes, they were.

22 MR. CARR: At this time, Mr. LeMay, we  
23 move the admission of Amoco Exhibits 1 and 2.

24 CHAIRMAN LEMAY: Without objection,  
25 Exhibits 1 and 2 will be admitted into the

1 record.

2 MR. KELLAHIN: That concludes my  
3 examination of Mr. Hawkins.

4 CHAIRMAN LEMAY: Questions of the  
5 witness?

6 EXAMINATION

7 BY COMMISSIONER BAILEY:

8 Q. Do you expect to be drilling more wells  
9 in the MesaVerde this year?

10 A. In fact we're going to be looking at a  
11 number of wells to be drilled in 93 and 94, and  
12 we'll be looking at all of the pools, primarily  
13 Dakota and MesaVerde. Some P.C. wells, also.

14 Q. Have you taken that into account in  
15 your recommendation here, or is that separate?

16 A. I think that the drilling that we're  
17 doing right now will have a very small amount of  
18 impact on the next six-month production period.  
19 As we get through our 94 drilling, we might see  
20 some impact on the total pool, but right now it's  
21 going to be a relatively small impact on the  
22 total pool production.

23 COMMISSIONER BAILEY: That's all I  
24 have.

25 CHAIRMAN LEMAY: Commissioner Weiss?

1 COMMISSIONER WEISS: Yes.

2 EXAMINATION

3 BY COMMISSIONER WEISS:

4 Q. Are you familiar with the location of  
5 the Phillips infill wells?

6 A. Yes, sir, I am.

7 Q. Will they result in drainage of Amoco's  
8 leases?

9 A. I don't think they will.

10 COMMISSIONER WEISS: Thank you.

11 CHAIRMAN LEMAY: I have no questions of  
12 the witness. You may be excused, Mr. Hawkins.  
13 Thank you.

14 **JAMES B. FRASER**

15 Having been first duly sworn upon his oath, was  
16 examined and testified as follows:

17 EXAMINATION

18 BY MR. KELLAHIN:

19 Q. Would you please state your name and  
20 occupation?

21 A. My name is James Fraser. I'm a  
22 production superintendent for Meridian Oil, Inc.,  
23 located in Farmington, New Mexico.

24 Q. As the production superintendent for  
25 Meridian in Farmington, have you had past

1 experiences with the prorated gas pools in  
2 Northwestern New Mexico?

3 A. Yes sir, I have.

4 Q. And have you previously qualified and  
5 provided testimony as an expert witness before  
6 this Commission on that subject?

7 A. Yes, sir, I have.

8 Q. And you continue in that capacity  
9 today, with your expert testimony concerning your  
10 company's recommendations for these prorated  
11 pools?

12 A. Yes, sir.

13 MR. KELLAHIN: We tender Mr. Fraser as  
14 an expert witness.

15 CHAIRMAN LEMAY: His qualifications are  
16 acceptable.

17 Q. Let me have you turn, sir, to Exhibit  
18 No. 1. Summarize for us what, if any,  
19 recommendations you have for adjustments in the  
20 prorated pools in Northwestern New Mexico.

21 A. Exhibit No. 1 consists of the top line  
22 being the recommendation made by the Oil and Gas  
23 Commission on the prorated pools for the next  
24 six-month time frame; specially, the Basin  
25 Dakota, the Blanco MesaVerde, and the Blanco P.C.



1 South. Under the "Current" line is listed the  
2 OCD number, approximately 9.6 Bcf a month for the  
3 Dakota, approximately 16.7 Bcf for the MesaVerde,  
4 and approximately 1.4 Bcf per month on the Blanco  
5 P.C. South.

6 The second line there is a  
7 Meridian-recommended adjustment. Similar to  
8 Amoco's recommendation, we don't recommend any  
9 adjustments in either the Dakota or the Blanco  
10 P.C. South, and are recommending a 500,000 Mcf  
11 per month increase on the Blanco MesaVerde.

12 That would give a total monthly pool  
13 allowable for the respective pools of 9.6 Bcf per  
14 month, 17.2 Bcf per month, and 1.4 Bcf per month,  
15 respectively.

16 Q. Mr. Fraser, describe for us the basis  
17 upon which you make that conclusion concerning  
18 the adjustments or lack of adjustments.

19 A. If you turn to Exhibit 2, which is a  
20 two and a half year production plot of the Basin  
21 Dakota pool, there are several points I would  
22 like to make about this exhibit.

23 The first being that the solid squares  
24 on the right-hand side of the curve are  
25 Meridian's estimates of the pool's production for

1 the months of May and June of 1993.

2 The solid line that says "average  
3 equals 9.6" is the arithmetic average of the  
4 preceding 12 months' pool production for the  
5 Dakota. You can see that arithmetic average is  
6 9.6 Bcf per month, which is essentially the same  
7 as the recommended allowable for the next  
8 six-month time frame.

9 The other significant point I would  
10 like to point out, and I've made this testimony  
11 several times, is that in March, April and May of  
12 1992, there was a significant event in the San  
13 Juan Basin that allowed all of these conventional  
14 pools to increase production dramatically. And  
15 that was the expansions out of the basin of the  
16 two major pipelines that transport gas out of the  
17 basin.

18 As a result of those expansions, field  
19 gathering pressures have decreased in the basin,  
20 which have allowed these two conventional pools  
21 to increase fairly significantly over the last  
22 year. But, as regards the allowable for the next  
23 time frame, we believe that the Dakota value of  
24 9.6, is sufficiently high to allow the production  
25 of this pool.

1 Q. And that would track the historical  
2 average of production out of that pool for this  
3 period of time shown on the display?

4 A. Yes, it's essentially the same number  
5 as the previous 12-month average.

6 Q. Explain the purpose of the dashed  
7 forecast, that has a peak in May of 93.

8 A. Once again, those are simply Meridian's  
9 estimate of the pool's production, based on our  
10 internal estimate of Meridian's operated  
11 production, grossed up by a factor of what has  
12 been our historic ratio in the pool's  
13 production. We historically average between 29  
14 and 30 percent of the pool's production.

15 Q. How good are you at forecasting the  
16 future demand for production from the pool?

17 A. It's been fairly accurate the last  
18 couple of proration hearings. We've discussed  
19 this issue before, and we've been within a couple  
20 hundred thousand Bcf per month, for every month  
21 we've estimated; so, it's fairly accurate.

22 The next curve, Exhibit No. 3, is just  
23 further application on the points I previously  
24 made. This is a bar graph from the last eleven  
25 years of the Basin Dakota production on a Bcf per

1 month basis.

2           The far right-hand side has a scale of  
3 pressure on psi, from zero to 400 pounds. The  
4 significance of this, once again, is that the  
5 1993 year-to-date Dakota production has been  
6 higher in the last seven years, I believe, since  
7 1985. This is a direct relationship, I believe,  
8 in the decreasing pressures that have been  
9 designated as the triangles on the exhibit.

10           In 1991, there was a field gathering  
11 pressure of approximately 390 psi. In the last  
12 two years that pressure has dropped to 300 psi.  
13 Subsequently, the production in the Dakota has  
14 risen from slightly under 7 Bcf per month in  
15 1991, to approaching 10 Bcf per month in 1993.

16           Q.     Let's turn now to the Blanco MesaVerde,  
17 to Exhibit 4.

18           A.     This is the same presentation on the  
19 MesaVerde as we've just gone through on the  
20 Dakota. Once again, this is monthly production  
21 of the Blanco MesaVerde pool on a Bcf per month  
22 basis, from January of 1991, or the last two and  
23 a half years.

24           Once again, I've estimated the May and  
25 June numbers, based on Meridian's internal

1 values, and grossed that up to the total pool  
2 production. I've estimated 18.2 Bcf per month in  
3 May, and 17.0 Bcf per month in June.

4 Using those two numbers, as well as the  
5 previous 10 months, the subsequent 12-month  
6 average for the MesaVerde is 16.8 Bcf a month.

7 Q. If you look at that average, that's  
8 pretty close to the Division's schedule without  
9 adjustment, the 16.7 Bcf?

10 A. That's correct.

11 Q. And yet, you're requesting half a Bcf  
12 adjustment. What's the purpose?

13 A. Several reasons for that, sir. The  
14 first being that even over that 12-month time  
15 frame, the MesaVerde has shown a consistent  
16 ability to produce above 17 Bcf per month. Six  
17 of those 12 months, in that last 12 months, have  
18 production over 17 Bcf. The two months that  
19 really kind of knocked the average down, if you  
20 will, are February and April of 1993.

21 I think there's two reasons for that.  
22 One is, especially in February, of course, it's a  
23 short month. There's only 28 days in the month.  
24 The other thing is, the spring of this year, both  
25 February and April, the San Juan Basin had a

1       tremendously wet winter, and it was incredibly  
2       hard to get to all the wells and maintain  
3       production in the conventional production.  
4       That's why I believe those two months had an  
5       adverse effect, due to the inclement weather  
6       conditions.

7                 As I said, in the next six-month time  
8       frame, I think the production of the MesaVerde  
9       pool will increase to average in the 17.2 Bcf  
10      range. I think that's due to several reasons.  
11      Meridian is concentrating the bulk of our  
12      development activity, both in 1993 and 1994,  
13      towards the MesaVerde.

14                In addition, operators, as well as  
15      other pipeline companies, are looking for more  
16      efficient ways to utilize the asset in the  
17      MesaVerde pool, to exploit the existing  
18      production. One of those methods is increased  
19      compression facilities out on the fuel gathering  
20      systems.

21                Both Meridian, and I know several of  
22      the pipeline companies, are evaluating projects  
23      to increase production from existing MesaVerde  
24      wells with compression projects.

25                And I believe those two conditions will

1 allow the MesaVerde production to increase in the  
2 next six-month time frame. The MesaVerde is more  
3 applicable to compression projects than the  
4 Dakota, due to the nature of the reservoir rock.  
5 It's more highly permeable than the Dakota, and  
6 therefore it responds quicker and better to  
7 reduced gathering pressures.

8 For those reasons, I believe the  
9 MesaVerde production will increase above that  
10 arithmetic average that we've seen in the last 12  
11 months.

12 Q. Do you have a display that shows the  
13 effect, if any, of adjustments in pipeline  
14 pressure on production?

15 A. Yes, sir, Exhibit No. 5 shows the same  
16 presentation as I've shown on the Dakota. Once  
17 again, this is a yearly bar graph of the  
18 production of the pool on a Bcf-per-month basis  
19 on the MesaVerde.

20 As you can see by the bar graph, I  
21 estimate 1993 will have the highest production in  
22 the MesaVerde pool since before 1982; so, with  
23 the last 11 years, 1993 will be the highest  
24 production year.

25 Once again, I believe part of that is

1 due to the decrease in fuel gathering pressures.  
2 As I previously testified, the 390 psi, in 1991,  
3 has dropped to 300 psi approximately in 1993,  
4 which has allowed the pool's production to  
5 increase. In 1991, the pool's production was  
6 less than 13 Bcf per month. Right now, I think  
7 the pool's deliverability is in the 17 Bcf per  
8 month range.

9 Q. Would you turn to your last exhibit,  
10 No. 6. Summarize it for us what you've shown.

11 A. This is a spreadsheet which details the  
12 last three proration periods; the summer of 1992,  
13 the winter of 1992-93, this current summer of  
14 1993, and then the next winter period. What it  
15 summarizes is the allowable for those three pools  
16 I've discussed this morning, and the actual  
17 production for the same time frame.

18 The point on all three pools is that  
19 the actual production has equaled to or exceeded  
20 the allowable for those three time frames. Once  
21 again, I think this is a direct effect of the  
22 pipeline pressures in the basin that have allowed  
23 the basins to increase production and have been  
24 able to exceed or meet the allowable that has  
25 been granted in the last three proration periods.



1 Q. Is there market demand for pool  
2 production from these prorated pools, for this  
3 level of production?

4 A. Yes, sir, there is.

5 Q. Will this level of production exceed  
6 market demand?

7 A. No, sir, I don't believe it will.

8 Q. How about the capacity of the system to  
9 take these levels of production?

10 A. Yes. As the system currently exists,  
11 there's still excess capacity in the main-line  
12 take-away capacity out of the basin.

13 MR. KELLAHIN: That concludes my  
14 examination Mr. Fraser. We move the introduction  
15 of his Exhibits 1 through 6.

16 CHAIRMAN LEMAY: Without objection,  
17 Exhibits 1 through 6 will be admitted into the  
18 record.

19 Questions of Mr. Fraser? Commissioner  
20 Bailey?

21 MS. BAILEY: No.

22 CHAIRMAN LEMAY: Commissioner Weiss?

23 COMMISSIONER WEISS: Yes. I have the  
24 same question on the Basin Dakota.

25

## EXAMINATION

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BY COMMISSIONER WEISS:

Q. Are you familiar with the proposed location and the location of the Phillips infill wells?

A. No, sir, I'm specifically not.

COMMISSIONER WEISS: I have no other questions. Thank you.

CHAIRMAN LEMAY: Just a couple, Mr. Fraser.

## EXAMINATION

BY CHAIRMAN LEMAY:

Q. Does Meridian plan to drill some infill wells in the Basin Dakota Field, as well as the MesaVerde?

A. We have a few planned, but it won't significantly impact the total pool allowable.

Q. Do you happen to know, on the projection of fuel gathering pressures, when the plans are to install additional compressors, and how much effect that will have on fuel gathering pressures in the field?

A. Specifically no, I think the projects are on the drawing board, sir, but I don't know exactly the time frame. I believe we're talking

1 the 1994 time frame, spring 1994.

2 Meridian is installing several projects  
3 right now on some of our conventional systems  
4 that we operate, and we're installing compression  
5 this month and next month to reduce those  
6 gathering pressures.

7 Q. So, if that time frame was adhered to,  
8 there would not be a reduction in pressures  
9 affecting the proration period we're talking  
10 about now?

11 A. I believe January is actually when some  
12 of these will take effect, which would be half of  
13 the proration period we're discussing.

14 Q. Have you done any work at all to  
15 correlate additional reserves that could be  
16 produced, with pounds dropped in gathering  
17 pressure?

18 A. Just on an isolated basis, sir. On  
19 individual wells we have, yes, but not on a  
20 pool-wide basis.

21 CHAIRMAN LEMAY: I have no additional  
22 questions of the witness.

23 Any additional questions? If not, he  
24 may be excused. Thank you, Mr. Fraser.

25 MR. KELLAHIN: I think that completes

1 the presentation in the Northwest pools.

2 CHAIRMAN LEMAY: Mr. Carr, is there  
3 anything else in the Northwest?

4 MR. CARR: Nothing further on the  
5 Northwest pools.

6 CHAIRMAN LEMAY: Does anyone have any  
7 additional comments or statements concerning the  
8 Northwest?

9 Okay. Let's take about a 15-minute  
10 break, and then we'll take up the Southeast.

11 [A recess was taken.]

12 CHAIRMAN LEMAY: We shall continue,  
13 with the Eumont Field, Mr. Carr, in the  
14 Southeast.

15 MR. CARR: May it please the  
16 Commission, I would call, at this time, Robert E.  
17 Green.

18 **ROBERT E. GREEN**

19 Having been first duly sworn upon his oath, was  
20 examined and testified as follows:

21 EXAMINATION

22 BY MR. CARR:

23 Q. Would you state your full name for the  
24 record, please.

25 A. My name is Robert E. Green. I'm a

1 natural gas coordinator with Chevron, U.S.A., in  
2 Midland, Texas.

3 Q. Could you tell us, Mr. Green, what a  
4 natural gas coordinator actually does?

5 A. As such, I supervise processes,  
6 forecasting of gas available for sale, nominating  
7 and confirming that gas, and delivering it into  
8 the first transporter.

9 Additionally, I coordinate and  
10 negotiate gas sales, contracts, both on the  
11 short-term spot markets and on the longer term  
12 gathering and processing agreements.

13 Q. How long have you been in this  
14 position?

15 A. I have been in this current position  
16 for one year. However, I have been in the  
17 natural gas part of the company since 1981.

18 Q. Have you previously testified before  
19 this Commission at gas allowable hearings?

20 A. Yes, I have. As I said in the February  
21 25th hearing before this Commission, Chevron is  
22 bullish on natural gas, and we still are today.  
23 Natural gas in the United States remains to be  
24 very bright.

25 Chevron has maintained its multiple

1 market position for New Mexico gas into the  
2 Midwest, Texas Gulf Coast, and east of the  
3 Mississippi, as well as the California markets.

4 Q. At the time of your prior testimony,  
5 were your credentials as an expert in the area of  
6 natural gas marketing matters accepted and made a  
7 matter of record?

8 A. Yes, they were.

9 Q. Are you familiar with the current  
10 demand for natural gas from New Mexico?

11 A. Yes, I am.

12 Q. Have you prepared exhibits which  
13 illustrate the current status of the natural gas  
14 industry and the market for natural gas?

15 A. Yes, I have.

16 MR. CARR: Are Mr. Green's credentials  
17 acceptable?

18 CHAIRMAN LEMAY: They're acceptable.

19 Q. Have you prepared certain exhibits for  
20 presentation here today?

21 A. Yes, I have prepared some exhibits  
22 here.

23 Q. Would you refer to what has been marked  
24 as Chevron Exhibit No. 1, identify this and  
25 review it for the Commission.

1           A.       Yes.   Chevron Exhibit No. 1 is the  
2 United States Rig Count as assembled by  
3 Baker-Hughes Corporation.  On that, I would like  
4 to point out to the Commission the natural gas  
5 rig line there.

6                   Chevron predicts that there is a need  
7 for up to 500 natural gas rigs running in the  
8 United States to maintain the reserve replacement  
9 that we need for the production in the United  
10 States.

11                   Currently, we look to have about a  
12 350-rig average for 1993.

13           Q.       Let's move now to Chevron Exhibit 2.  
14 Would you identify that?

15           A.       Chevron Exhibit 2 is the domestic  
16 industry exploration and development expenditures  
17 over the past few years.  I would like to point  
18 out on this the effects of the extended decline,  
19 and the Domestic E & P budgets.  And they're  
20 becoming more apparent as the natural gas  
21 deliverability levels continue to decline.

22                   Given the two to five- year time period  
23 that it takes a major oil company to develop a  
24 project, it will take several years of  
25 continually increasing domestic budgets before we

1 can get major natural gas resources onto line.

2 This year's strength, however, in the  
3 natural gas prices, has provided for some  
4 incentive to producers, and while Chevron has not  
5 increased its domestic budget, we have shifted  
6 our budget to gas projects in the State of New  
7 Mexico.

8 Expenditures this year are up in our  
9 Indian Basin and Eumont pools, because of the  
10 opportunity that we're provided in those fields.  
11 A significant factor in those opportunities has  
12 been the favorable regulatory environment that we  
13 see in New Mexico.

14 Q. Let's now go to your reserve exhibit,  
15 Exhibit No. 3. Will you review that for the  
16 Commission?

17 A. Yes. Exhibit 3 is the reserve  
18 additions and production in the United States and  
19 the petroleum industry. As you'll notice, the  
20 reserve additions have not maintained pace with  
21 production in the United States over the past 11  
22 years.

23 The American Gas Association further  
24 forecasts that in 1992, the reserve additions  
25 were only in the 12 to 14 Tcf range, and the 1993



1 reserve additions will follow the 1992 forecast.  
2 Therefore, we'll only replace 70 to 85 percent of  
3 the production in the United States in 1993.

4 Q. Mr. Green, let's now go to Exhibit No.  
5 4. Referring to this exhibit, will you review  
6 for the Commission what you see to be the status  
7 of gas storage levels?

8 A. Yes. Exhibit 4 is the United States  
9 working gas storage levels and the inventories.

10 As you'll notice, and as we stated in  
11 the February hearing, gas storage levels were at  
12 a significant low. Right in the middle of the  
13 graph you'll see that in the February time, it  
14 was at a significant low, and it bottomed out in  
15 March, and some people in the industry seemed to  
16 think that we actually ran out of gas storage  
17 during the March time frame. This has caused a  
18 significant factor in maintaining the prices in  
19 the industry today.

20 The gas storage levels, as you'll note  
21 on the graph--and the updates are not on there  
22 through July, however--but you'll notice on the  
23 graph that significant amounts of natural gas  
24 were input into storage during the May and June,  
25 as well as July time frame, to come back into

1 line. However, they're only within about one  
2 percent of where they were at this time last  
3 year, which was at a four-year low.

4 Q. Let's go now to Exhibit No. 5. Would  
5 you identify that?

6 A. Exhibit 5 depicts the spot gas prices  
7 into the El Paso natural gas pipeline in the  
8 Permian Basin. We have two things on there.  
9 One, we have the historical prices since 1991,  
10 and then, following forward, September 1993 is  
11 the New York Mercantile Exchange prices, as they  
12 closed on Tuesday, August 17, 1993. They're  
13 adjusted for the Waha interchange.

14 As you can see, and as we forecast back  
15 in February of 1993, we saw the lowest price for  
16 natural gas this year. The forecast shows that  
17 it's going to be a very strong winter heating  
18 season, 1993-94. With this market strength, we  
19 want New Mexico natural gas reserves to  
20 participate in that opportunity and not to be  
21 displaced by other gas.

22 Chevron requests that the Commission  
23 consider these points when setting allowables,  
24 and to not restrict New Mexico production from  
25 the market.

1 Q. Mr. Green, were Exhibits 1 through 5  
2 prepared by you?

3 A. These exhibits were prepared with the  
4 assistance of our natural gas planning group, at  
5 my request.

6 Q. Have you reviewed them?

7 A. Yes, I have.

8 Q. Are they accurate?

9 A. Yes, they are.

10 MR. CARR: At this time, Mr. LeMay, we  
11 move the admission of Chevron Exhibits 1 through  
12 5.

13 CHAIRMAN LEMAY: Chevron Exhibits 1  
14 through 5 will be admitted into the record  
15 without any conflict.

16 MR. CARR: That concludes my direct  
17 examination of Mr. Green.

18 EXAMINER STOGNER: Questions of Mr.  
19 Green? Commissioner Bailey?

20 EXAMINATION

21 BY COMMISSIONER BAILEY:

22 Q. On Exhibit No. 3, could you please  
23 explain the revisions and adjustments portion of  
24 each bar?

25 A. The revisions and adjustments portion

1 of the bar is the reservoir engineering part of  
2 that, where you're going into an established  
3 field or an established well, where you review  
4 the reserves in that well, for whatever reason.

5 You may have a lower gathering system  
6 pressure into the field at that time, or you may  
7 have worked over a well or perforated additional  
8 pay in that zone, and that would cause revision  
9 or adjustment to an existing reservoir.

10 MS. BAILEY: Okay. Thank you.

11 EXAMINER STOGNER: Commissioner Weiss?

12 COMMISSIONER WEISS: I have no  
13 questions.

14 EXAMINATION

15 BY CHAIRMAN LEMAY:

16 Q. Mr. Green, your Exhibit 4, I assume you  
17 have the bottom axis, August through July, but  
18 they're not in years. I assume your half of that  
19 is 1993, and half is 1992?

20 A. Yes, sir, that's correct. That is up  
21 through July of 1993.

22 Q. All right. Also on your Exhibit No. 5,  
23 did you make any adjustments for the NYMEX future  
24 prices? They're quoted at Henry Hub, are they,  
25 and spot prices are quoted from where?

1           A.       The spot prices that are plotted on  
2 here are adjusted 22 cents down from the Henry  
3 Hub for Waha.

4           Q.       So, you're subtracting 22 cents from  
5 the Permian Basin into El Paso at Waha, from the  
6 quoted prices that the NYMEX has at Henry Hub?

7           A.       Correct. I'm taking the Henry Hub  
8 NYMEX, subtracting 22 cents from that, which gets  
9 you back to Waha.

10          Q.       Gets you back in a back call, or is  
11 that just historically the difference between a  
12 Waha-quoted price or what actually is at Henry  
13 Hub?

14          A.       The 22 cents is what it would cost you  
15 to get Waha gas to Henry Hub and to NYMEX.

16          Q.       That's a transportation charge and not  
17 necessarily a differential, as you see it quoted  
18 in the Wall Street Journal of what's actually  
19 happening out there in Waha?

20          A.       Well, it traditionally has been an  
21 accurate depiction of the differential.

22          Q.       So, 22 cents is not only the  
23 transportation cost, but has been the actual  
24 differential between the gas at Henry Hub and the  
25 gas at Waha?

1           A.       The 22 cents reflects the differential  
2 of the transportation.

3           Q.       I guess what I'm getting at is, is  
4 there truly that much difference in actual  
5 deliveries at Waha and Henry Hub, according to  
6 spot prices? In other words, is the gas going to  
7 Henry Hub getting 22 cents more than our gas  
8 going to Waha?

9           A.       Yes.

10           CHAIRMAN LEMAY: Thank you.

11           Additional questions of the witness?  
12 If not, he may be excused.

13           MR. CARR: At this time, we call Alan  
14 Bohling.

15   **ALAN BOHLING**

16 Having been first duly sworn upon his oath, was  
17 examined and testified as follows:

18   EXAMINATION

19 BY MR. CARR:

20           Q.       Would you state your name and place of  
21 residence?

22           A.       My name is Alan W. Bohling. I live in  
23 Midland, Texas.

24           Q.       By whom are you employed?

25           A.       I'm employed by Chevron, U.S.A.

1 Q. And what is your current position with  
2 Chevron?

3 A. I am a petroleum engineer.

4 Q. Mr. Bohling, have you previously  
5 testified before this Commission?

6 A. Yes, I have.

7 Q. And how were you qualified at that  
8 time? As a petroleum engineer?

9 A. Probably as a proration engineer.

10 Q. Are you familiar with the preliminary  
11 nomination figures for the allowable period from  
12 October 1993 to March 1994, that have been  
13 published by the Oil Conservation Division?

14 A. Yes, I am.

15 Q. Are you prepared to make certain  
16 recommendations to the Commission concerning  
17 adjustments to these preliminary figures?

18 A. Yes, I am.

19 Q. Is your testimony going to focus only  
20 on the Eumont gas pool?

21 A. It is, yes.

22 MR. CARR: Are the witness'  
23 qualifications acceptable?

24 CHAIRMAN LEMAY: His qualifications are  
25 acceptable.

1           Q.       You've prepared exhibits for  
2 presentation today, have you not?

3           A.       Yes, I have.

4           Q.       Could you identify what has been marked  
5 as Chevron Exhibit 1(E) and review the  
6 information on that exhibit for the Commission?

7           A.       Exhibit 1(E) is a graph used to  
8 illustrate the relative position of the principle  
9 gas producers in the Eumont gas pool. It can be  
10 evident from this production graph that Chevron,  
11 which is shown as a solid, red line, is a  
12 significant contributor to the total daily gas  
13 production of the Eumont gas pool.

14                   I would like to point out that, for  
15 clarity purposes, the production for each  
16 operator is scaled on the left-hand side of the  
17 graph, while the Eumont Pool's total daily  
18 production utilizes the scale on the right-hand  
19 side of the graph.

20           Q.       Basically, what does this tell us about  
21 production from the Eumont pool, as it relates to  
22 Chevron's activities?

23           A.       As I'll later show, on a subsequent  
24 exhibit, this illustrates that inclines or  
25 increases in the total pool's production is



1 impacted by Chevron's increases in production as  
2 a result of our workover and drilling programs.

3 Q. Let's go now to Exhibit 2(E). Can you  
4 identify and review that?

5 A. This exhibit is a bar graph which  
6 shows, in red, the portion of the Eumont pool's  
7 total daily production that is attributable to  
8 Chevron. As can be seen from this graph, Chevron  
9 has maintained a full, steady production rate  
10 throughout each year.

11 Also, as a result of our workover and  
12 drilling program, we have managed to increase the  
13 production from approximately 14,000 to 22,500  
14 Mcf a day. This 22,500 Mcf a day represents  
15 approximately 25 percent of the pool's total  
16 daily production, which is approximately 90,000  
17 Mcf per day.

18 Q. Would you now refer to Exhibit 3(E)  
19 and, using this exhibit, refer to Chevron's  
20 recent workover drilling program?

21 A. Exhibit 3(E) illustrates what Chevron's  
22 activity in the Eumont gas pool has been for the  
23 years 1991 and 1992.

24 As a result of the Commission's  
25 approval of the 600 Mcf per day minimum allowable

1 in establishing a six-month allocation period for  
2 the Eumont gas pool Chevron has completed  
3 approximately 20 workovers and nine new drills in  
4 1991. This resulted in an increase of daily  
5 production from 14,478 Mcf per day, to 21,780 Mcf  
6 per day.

7 The majority of this increase did not  
8 occur until the later part of 1991, due primarily  
9 to delays in the gas pipeline connections.

10 For the year 1992, Chevron has  
11 completed 10 workovers or recompletions, and  
12 three new drills in the Eumont gas pool. The  
13 response to this program is just now becoming  
14 evident, however, due to the delay in the  
15 program, with the majority of our completions  
16 occurring in the forth quarter of 1992. And  
17 actual pipeline connections actually not  
18 occurring until April of this year.

19 For 1993, Chevron has planned and  
20 budgeted for an additional 14 workovers or  
21 recompletions, and three new drills. We have  
22 already completed approximately five of these  
23 workovers, all since April of 93, and, in  
24 combination with the 1992 program wells, an  
25 additional 2,483 Mcf per day has been added since

1 1993. This will bring the pool's total to  
2 approximately 89,285 Mcf per day. This will be a  
3 little more evident in the next exhibit.

4 Q. Let's go to that exhibit now; and, by  
5 using this exhibit, would you not only tell us  
6 about actual production but your production  
7 forecast?

8 A. This exhibit is a bar graph. I would  
9 like to explain this bar graph and how it's set  
10 up here, first. It shows the daily production  
11 for Chevron in the Eumont pool for April of  
12 1993. These are numbers as taken out of the New  
13 Mexico Engineering Committee books.

14 Again, the whole bar represents the  
15 Eumont pool's total daily production, while the  
16 bottom or the red portion of the bar shows  
17 Chevron's part of that total daily production.

18 If we keep April 1993's production  
19 constant and just add production as a result of  
20 Chevron's 92-93 workover and drilling programs,  
21 it results in the light-colored bars, from May of  
22 93 to March of 94.

23 As I've just stated, approximately  
24 2,483 Mcf per day has been added by Chevron since  
25 April of 93, bringing the pool total, in August

1 of 93, to approximately 89,285 Mcf per day. This  
2 is currently at the proposed allowable of the  
3 Commission, of 88,200 Mcf per day.

4 The proposed allowable's indicated on  
5 this bar graph by a line which projects through  
6 the bars at the top of the graph. This  
7 represents 697 Mcf per day per acreage factor of  
8 1, in the Eumont gas pool.

9 The remaining 93 Chevron program of  
10 nine workovers and three new drills, is  
11 anticipated to increase the pool's average daily  
12 production to approximately 95,550 Mcf per day,  
13 which will be forecasted with the light blue bars  
14 at the far right, from the period of October of  
15 93 to March of 94.

16 However, under the proposed allowable  
17 of 697 Mcf per day, we'll have to curtail already  
18 completed production by approximately 2,603 Mcf  
19 per day, and not do three of the nine remaining  
20 workovers nor two of our projected three new  
21 drills. This will be an additional loss of  
22 approximately 3,000 Mcf per day.

23 Q. Now, if we look at Exhibit 4(E), that  
24 is your production forecast, and on that you have  
25 indicated what the current OCD proposal is, is

1 that correct?

2 A. That is correct.

3 Q. How does that differ from the next  
4 exhibit, Exhibit 5(E)?

5 A. Okay. While we're on this exhibit, if  
6 I can, I would like to also state that Chevron  
7 currently operates 99 out of the 420 acreage  
8 factors in the Eumont gas pool. This represents  
9 approximately 24 percent.

10 Under the present allowable of 952 Mcf  
11 per day, which is the period that we're in right  
12 now, Chevron has no non-marginal acreage  
13 factors. Under the proposed 697 Mcf per day,  
14 Chevron would be thrust into having 10  
15 non-marginal acreage factors. This number would  
16 increase to 19 non-marginal acreage factors, if  
17 we were to continue our present 93 program as we  
18 anticipate the results to be.

19 Going on to the next exhibit--

20 Q. And now we're to Exhibit 5(E)?

21 A. 5(E), yes, sir. This is, essentially,  
22 the same exhibit as 4(E), except the line across  
23 the top represents an allowable of 813 Mcf per  
24 day per acreage factor, or 90,800 Mcf per day for  
25 the pool. This is the average production for the

1 period of October 92 through March of 93.

2 And as can be seen from this, we came  
3 pretty close to it in that period last year,  
4 meeting that proposed allowable. We're pretty  
5 close to it right now, in the summer months.

6 Under this allowable, Chevron would  
7 currently have four non-marginal acreage  
8 factors. If we continue our 93 program, as  
9 planned, this would increase us to 10  
10 non-marginal acreage factors for the period of  
11 October 93 to March of 94.

12 Q. All right. If we go now to Exhibit  
13 6(E)?

14 A. Exhibit 6(E) is, again, a similar  
15 graph. On this graph, however, the bar at the  
16 top represents what the current allowable is, of  
17 952 Mcf per day for an acreage factor of one.  
18 And this is what Chevron would recommend that we  
19 continue to be at.

20 Under this particular allowable, again,  
21 Chevron currently would have no non-marginal  
22 acreage factors, but with our 93 program, for the  
23 period of October of 93 through March of 94, we  
24 would go to three non-marginal acreage factors.

25 Q. These increases in the non-marginal

1 acreage factors are a direct result of a  
2 continuation of Chevron's workover program, is  
3 that right?

4 A. That is correct.

5 Q. Okay. Let's go now to Exhibit No.  
6 7(E). Would you identify and review that?

7 A. Exhibit 7(E) is what Chevron proposes  
8 or recommends as an adjustment to the proposed  
9 allowable for the period of October 93 through  
10 March of 94. We would like to see an adjustment  
11 of 173,874 Mcf per month, for line 3 on this  
12 table be added to line 1 in order to result in a  
13 monthly acreage allocation factor on line 8 of  
14 28,928 Mcf per month, or 952 Mcf per day per  
15 acreage factor.

16 We feel the continuation of the current  
17 allowable of 952 Mcf per day per acreage factor  
18 would promote continued development within the  
19 Eumont gas pool.

20 Q. Mr. Bohling, if the recommendation is  
21 adopted, then, it would provide the incentive  
22 necessary to go forward with the currently  
23 ongoing workover and the additional development  
24 program that Chevron has underway in this field?

25 A. That is correct.

1 Q. And other operators in the field are  
2 also undertaking similar programs?

3 A. To my knowledge, they are.

4 Q. Were Exhibits 1(E) through 7(E)  
5 prepared by you?

6 A. Yes, they were.

7 MR. CARR: At this time, Mr. LeMay,  
8 we'd move the admission of Chevron Exhibits 1(E)  
9 through 7(E).

10 CHAIRMAN LEMAY: Without objection,  
11 Exhibits 1(E) through 7(E) will be admitted into  
12 the record.

13 MR. CARR: That concludes my direct  
14 examination of Mr. Bohling.

15 CHAIRMAN LEMAY: All right. Questions  
16 of the witness?

17 EXAMINATION

18 BY COMMISSIONER BAILEY:

19 Q. Is most of this Eumont production  
20 attributable to primary production on a lease  
21 basis, or is this primarily unit production?

22 A. We have several leases. Those leases  
23 can run anywhere from 80 acres to approximately  
24 640 acres in size. There would be several wells  
25 that would be simultaneously dedicated to one of



1 these leases, or a proration unit. So one lease  
2 may have several wells on it.

3 Q. No, I was talking about a secondary  
4 recovery unit, a waterflood unit that is  
5 producing most of this gas.

6 A. These are strictly gas wells. They're  
7 not associated with waterflood at all.

8 COMMISSIONER BAILEY: Okay. That's  
9 all.

10 CHAIRMAN LEMAY: Commissioner Weiss?

11 EXAMINATION

12 BY COMMISSIONER WEISS:

13 Q. Are the new drills, are they  
14 replacement wells or edge wells, or where do you  
15 put them?

16 A. Primarily, we're trying to capture  
17 reserves that would not otherwise be captured,  
18 through infill drilling, in locations where we  
19 don't have wells that we can plug back, or  
20 utilize wellbores to plug back to the Eumont.

21 So, where we don't have a wellbore  
22 available that we can actually utilize through  
23 plug-back procedures, we'll look into it and  
24 evaluate it for a possible new drill.

25 COMMISSIONER WEISS: That was my only

1 question. Thank you.

2 CHAIRMAN LEMAY: I've only got a couple  
3 of questions.

4 EXAMINATION

5 BY CHAIRMAN LEMAY:

6 Q. Have you contacted other operators in  
7 the field regarding your recommendation for  
8 increased allowables?

9 A. Yes, I have.

10 Q. What kind of response have you had?

11 A. Primarily, they were in favor of an  
12 increase, or maintaining of the current  
13 allowable, primarily because they have just  
14 recently completed wells on their leases. The  
15 word that they told me was that they would be  
16 adversely affected if it went down to 697 Mcf a  
17 day.

18 Q. Now, an acreage factor of one pertains  
19 to what size unit in the Eumont field?

20 A. 160 acres.

21 Q. 160 acres. So, basically, you could,  
22 in the Eumont field, drill four wells on that  
23 160-acre spacing and get the full allowable?

24 A. No. The standard proration unit in the  
25 Eumont gas pool would be 640 acres, which would

1 have an acreage factor of four. On that you  
2 could drill four wells.

3 Q. Can you get below 160-acre spacing per  
4 well?

5 A. Yes, you can.

6 Q. My point would be, then, you could  
7 drill four wells on 160 acres and share one  
8 allowable?

9 A. Yes, you could.

10 Q. So that if the allowable kept going  
11 up--I'm thinking of a waste issue, is what I'm  
12 thinking--if we get the allowable high enough,  
13 would there be an incentive to get in there and  
14 drill existing proration units so as to,  
15 basically, produce an economic amount of gas per  
16 well, but which could be drained by one well?

17 A. Well, we're seeing effects from our  
18 program where we don't feel that one well is  
19 actually accomplishing total drainage, even on a  
20 160-acre acreage factor.

21 Q. Do you see where I'm getting that? If  
22 the incentive was too great on an allowable basis  
23 in there, there may be an incentive for operators  
24 to drill on 40 acres, an infill program, to  
25 maximize cash flow. But would one well be

1       adequate to drain 160 acres?

2           A.       That could be, although our experience  
3       has been, in some cases, in certain portions of  
4       the field, an extra well is necessary to actually  
5       drain 160 acres. There are other portions of the  
6       pool where that would be true.

7           Q.       Do you happen to know, on the three  
8       wells that you have scheduled, the three new  
9       wells, what the spacing unit--what acreage you're  
10      assigning to those three wells?

11          A.       One of them is going to be assigned to  
12      a 320-acre proration unit, along with another  
13      well that we plan on doing a workover in. The  
14      other two will be drilled on a 640-acre proration  
15      unit.

16          Q.       So, you plan to maximize the spacing  
17      units in there when you do your new drilling  
18      program?

19          A.       Yes.

20          Q.       Assign as much acreage as you possibly  
21      can to each well?

22          A.       Yes.

23                   CHAIRMAN LEMAY: That's all the  
24      questions I have. Any additional questions of  
25      the witness?

1 MR. CARR: Mr. LeMay, one of the  
2 companies we contacted in the Eumont pool is Arco  
3 Oil & Gas Company, and they have provided us with  
4 a brief statement they requested that we read  
5 into the record. It goes as follows.

6 "Arco has completed 22 workovers or  
7 recompletions in the Eumont and Jalmat fields so  
8 far this year, and is planning to complete  
9 another 18 by the end of 1993. Several of these  
10 will have to be canceled if allowables are  
11 lowered to the preliminary allowable estimate of  
12 697 Mcf per day for the Eumont field, and 583 Mcf  
13 per day for the Jalmat field, since they would no  
14 longer be economically attractive.

15 "In addition, four of Arco's 16 Eumont  
16 proration units and two of Arco's 34 Jalmat  
17 proration units, would be capable of producing  
18 above the preliminary allowable estimate, due to  
19 recent workovers or recompletion activity that  
20 was justified by the higher April 1993 through  
21 September 1993 allowable."

22 And I have a copy of this statement.

23 CHAIRMAN LEMAY: That prompts one  
24 question, if you don't mind, Mr. Carr.

25 Q. (BY CHAIRMAN LEMAY) On your workovers,

1 are you basically perforating more sections of  
2 the Eumont bay? That's the predominant workover  
3 procedure?

4 A. That's correct. We're coming up to the  
5 Yates and Seven Rivers portions of the Eumont and  
6 perforating those and fracture acidizing those  
7 upper intervals of the Eumont pool.

8 Q. And getting higher deliverabilities,  
9 based on that workover procedure?

10 A. Yes, we are. Significantly higher.

11 CHAIRMAN LEMAY: That's all I have.  
12 Additional questions? Mr. Stovall?

13 EXAMINATION

14 BY MR. STOVALL:

15 Q. On the proration units that you're  
16 talking about drilling, in response to the  
17 Chairman's question, how many wells are on the  
18 existing, say, 320? How many wells already exist  
19 on that?

20 A. There is one well on it. There's three  
21 or four wells on one of the 640's, and the other  
22 640 acre has two or three wells on it.

23 FURTHER EXAMINATION

24 BY CHAIRMAN LEMAY:

25 Q. So, there are more than one well? I

1 guess what I'm saying is, we're moving towards a  
2 number of wells on a proration unit?

3 A. Yes, sir.

4 Q. You're adding wells to existing wells  
5 in your proration units?

6 A. Correct.

7 CHAIRMAN LEMAY: Any more questions of  
8 the witness? If not, he may be excused. Thank  
9 you, Mr. Bohling.

10 MR. CARR: That's all we have on the  
11 Eumont pool. I would like to provide you copies  
12 of the Arco letter.

13 CHAIRMAN LEMAY: Fine. Thank you.

14 [Discussion off the record.]

15 MR. KELLAHIN: Can I have about 10  
16 minutes on the Blinebry?

17 **RONALD J. FOLTZ**

18 Having been first duly sworn upon his oath, was  
19 examined and testified as follows:

20 EXAMINATION

21 BY MR. KELLAHIN:

22 Q. Mr. Foltz, would you please state your  
23 name and occupation?

24 A. My name is Ronald J. Foltz. I'm a  
25 senior reservoir engineer with Marathon Oil

1 Company in Midland, Texas.

2 Q. On prior occasions, Mr. Foltz, have you  
3 testified on prorationing matters on the Blinebry  
4 gas pool in Lea County, New Mexico?

5 A. Yes, I have.

6 Q. Have you continued to follow the  
7 production in that pool in terms of the proration  
8 system?

9 A. Yes, I have.

10 Q. Do you have recommendations for the  
11 Commission concerning the prorated allowables for  
12 that pool for the next period?

13 A. Yes, sir, I do.

14 MR. KELLAHIN: We tender Mr. Foltz an  
15 an expert proration engineer.

16 CHAIRMAN LEMAY: His qualifications are  
17 acceptable.

18 Q. What is your conclusion and  
19 recommendation concerning any adjustment to the  
20 temporary schedule of allowables that was  
21 presented by the Division this morning for the  
22 Blinebry gas pool?

23 A. My recommendation is to continue with  
24 the proposed allowable based on the Commission's  
25 recommendation.



1 Q. So, you're recommending neither a  
2 positive or a negative adjustment at this point?

3 A. That's correct.

4 Q. Show us how you reached that  
5 conclusion. And to illustrate your reasons, turn  
6 to Exhibit No. 1.

7 A. Exhibit No. 1 is the sales for the  
8 Blinebry gas pool, total sales, for the period  
9 April of 1991 through March of 1993. Based on  
10 this, also the red dashed line indicates the  
11 allowable for the pool.

12 As a result, especially toward the last  
13 year, the average pool production is right at the  
14 proposed number of 474, right at 500,000 million  
15 cubic feet per month.

16 Q. What was the non-marginal proration  
17 unit monthly allowable for the last proration  
18 period?

19 A. The monthly acreage allocation factor  
20 was 38,000, I do believe.

21 Q. Using this schedule, without further  
22 adjustment, it would be up to 45,000?

23 A. That's correct.

24 Q. Turn to Exhibit 2 and show us how the  
25 allowable is spread among the operators in the

1 pool.

2 A. Exhibit 2 has the percentage of average  
3 gas sales, by operator, for the Blinebry gas  
4 pool. As you can see, the Marathon share is  
5 right at 23.2 percent, indicated in red. The  
6 blue area is John Hendrix as the operator with  
7 18.2 percent, average gas sales. The next  
8 largest is Chevron, with 15.3 percent, and so on.

9 Q. If the Commission adopts, as a final  
10 schedule, the preliminary schedule, will there be  
11 any non-marginal spacing units?

12 A. Yes, there will.

13 Q. Approximately how many for the pool?

14 A. At this time, it appears that there's  
15 one well that can exceed the current proposed  
16 allowable.

17 Q. The temporary schedule shows three, and  
18 that's why I asked the question.

19 A. That's right. The two other wells, I  
20 believe, are Marathon-operated wells that are  
21 producing right at the current allowable.

22 Q. Have you shown production graphs on the  
23 three wells that, in all probability, will be the  
24 non-marginal wells as we move through the  
25 proration system?

1           A.       Yes, I do.

2           Q.       Without specifically describing them,  
3 simply identify for us Exhibits 3, 4 and 5.

4           A.       Exhibit 3 and Exhibit 4 are the two  
5 Marathon-operated wells, the Lou Worthan Nos. 9  
6 and 12, and indicates their sales average, per  
7 month, over the period January of 89 through June  
8 of 1993. It also indicates the allowable for the  
9 well and the overproduction status.

10                   The Exhibit 5 is what we believe to be  
11 the current highest producing well in the  
12 Blinebry pool. It's the Elliott Hinton No. 1,  
13 operated by John Hendrix, and has similar data as  
14 Exhibits 3 and 4, only it includes data through  
15 March of 1993.

16           Q.       Is there a market for the gas produced  
17 at this level, if the Commission adopts the  
18 preliminary schedule?

19           A.       Yes, there is.

20           Q.       Are is there any kind of system  
21 constraints or gathering system limitations  
22 within the pool, or for taking that production to  
23 market?

24           A.       There is not.

25           Q.       What is your recommendation, then, for

1 the pool?

2 A. Marathon's recommendation is to  
3 continue with the monthly acreage allocation  
4 factor as proposed by the Commission.

5 MR. KELLAHIN: That concludes my  
6 examination of Mr. Foltz. We move the  
7 introduction of his Exhibits 1 through 5.

8 CHAIRMAN LEMAY: Without objection,  
9 Exhibits 1 through 5 will be admitted into the  
10 record.

11 Questions of the witness?

12 COMMISSIONER BAILEY: No questions.

13 COMMISSIONER WEISS: I have no  
14 questions.

15 CHAIRMAN LEMAY: I don't have any,  
16 either. Mr. Foltz, you may be excused.

17 Thank you very much. All right. Let's  
18 do the Indian Basin now.

19 **JOHN ROEFFERS**

20 Having been first duly sworn upon his oath, was  
21 examined and testified as follows:

22 EXAMINATION

23 BY MS. AUBREY:

24 Q. Would you state your name for the  
25 record, please?

1           A.       Yes, John Roeffers.

2           Q.       Where are you employed, Mr. Roeffers?

3           A.       I'm employed by Kerr-McGee Corporation,  
4 in Oklahoma City, Oklahoma.

5           Q.       What's your occupation?

6           A.       I'm a reservoir engineer.

7           Q.       Mr. Roeffers, are you familiar with  
8 Kerr-McGee's request for an increase in the  
9 allowable in the Indian Basin Morrow?

10          A.       Yes, I am.

11          Q.       Have you become familiar with the  
12 proration system in the State of New Mexico, as  
13 it relates to the Indian Basin Morrow pool?

14          A.       Yes, I have.

15          Q.       Have you reviewed and are you prepared  
16 to make recommendations for adjustments to the  
17 allowable schedule presented this morning by the  
18 New Mexico Oil Conservation Division?

19          A.       Yes.

20          Q.       Does the Indian Basin Morrow pool in  
21 New Mexico fall within your area of  
22 responsibility with Kerr-McGee Corporation?

23          A.       Yes.

24          Q.       Have you testified previously before  
25 the New Mexico Oil Conservation Commission?

1           A.       No, I have not.

2           Q.       Would you review your educational  
3 background and work experience for the  
4 Commission?

5           A.       Yes. I have a bachelor of science  
6 degree in petroleum engineering from the  
7 University of Oklahoma. I was first employed as  
8 a petroleum engineer by Tenneco Oil Company in  
9 1981, worked with Tenneco until December 1988, at  
10 which time I went to work for Kerr-McGee  
11 Corporation.

12                       For that entire 12-year span, I have  
13 been employed as a reservoir engineer, and have  
14 taken part in the typical reservoir engineering  
15 activities, field studies, reserve studies,  
16 evaluations of well proposals, acquisitions,  
17 evaluations, so on.

18                       MS. AUBREY:    Are the witness's  
19 qualifications acceptable?

20                       CHAIRMAN LEMAY:  His qualifications are  
21 acceptable.

22           Q.       Mr. Roeffers, would you refer to what  
23 has been marked as Kerr-McGee Exhibit No. 1?

24           A.       Yes. Exhibit No. 1 is a plat showing  
25 the active Morrow wells in the Indian Basin

1 Morrow field. There are actually some more  
2 Morrow wells to the northwest, but they're all  
3 inactive at this time.

4 The red circles are the Indian Basin  
5 Morrow wells. Actually, there are two wells on  
6 this plat which are inactive now. Those are the  
7 Kerr-McGee Martha Creek well in the southwest of  
8 Section 30, and the Lowe State No. 1 well in the  
9 northwest of Section 36, which is operated by  
10 ORYX, I believe, and not BHP.

11 The other six wells are active. And,  
12 of those wells, there are two non-marginal wells  
13 or two non-marginal proration units, and those  
14 are Section 30, once again, where the Kerr-McGee  
15 Martha Creek No. 2 produces, and Section 36 where  
16 the ORYX Lowe State No. 2 produces.

17 Q. Mr. Roeffers, what is the present  
18 status of the Kerr-McGee Martha Creek No. 1 in  
19 Section 30?

20 A. The No. 1 is shut in. It's been  
21 inactive since 1985. And the No. 2 well was  
22 drilled as a replacement well for the No. 1.

23 Q. On Exhibit 1, you also show cumulative  
24 production in Bcf for all the wells that you've  
25 indicated by the red circles, is that correct?

1           A.     Yes.

2           Q.     You also show the average monthly  
3 production from each well, is that correct?

4           A.     It's the average daily production in  
5 the lower left-hand corner of the key, and that's  
6 based on data from Dwights production for the  
7 first two or three months of this year, depending  
8 on how much was reported by Dwights.

9                   I might point out, and we'll look at  
10 the production curve in a minute, for the Martha  
11 Creek No. 2 well in Section 30, it's showing a  
12 rate of 1.5 million a day and at this time we're  
13 experiencing fluid loading problems and we're  
14 actually producing about 650 Mcf a day.

15          Q.     Would you rather refer to your  
16 production curve to talk about your production?

17          A.     Yes.

18          Q.     Let me have you look at Exhibit No. 2,  
19 then.

20          A.     Okay. If I could ask one more thing on  
21 Exhibit 1, the reason we are seeking the  
22 increased allowable is for the proposed location  
23 of the Martha Creek No. 3 in the northwest of  
24 Section 30. We have notified the offset  
25 operators and we've received no objections for



1 that request for increased allowable, and we have  
2 actually received support from Penroc, who  
3 operates the well to the north, and is aware of  
4 the fact that we would like to drill another  
5 well.

6 They've supported us in our request for  
7 increased allowable, and it's my understanding  
8 that Marathon, who operates the section to the  
9 west of us, is also supporting our request.

10 Q. Any other comments you would like to  
11 make about Exhibit 1?

12 A. No. Thank you.

13 Q. Let me refer you to Exhibit No. 2. The  
14 first page of that exhibit shows the production  
15 from the Martha Creek No. 1, is that correct?

16 A. Yes, it is.

17 Q. Could you review what that production  
18 history is, for the Commission?

19 A. Yes. The Martha Creek No. 1 was  
20 actually completed in 1965, which isn't included  
21 on this graph. This production was taken from  
22 Dwights data, which doesn't have production back  
23 that far. The well, you could see through the  
24 early 70s, was about a two-million-a-day  
25 producer. It might have had some higher rates

1 before that time.

2 In 1985, the well experienced  
3 mechanical problems, and at that time the Martha  
4 Creek No. 2 was drilled as a replacement well.

5 There is some production reported in 86  
6 and 88, when attempts were made to work-over this  
7 well and get the production back. I can't  
8 testify as to the validity of those rates because  
9 these are pulled from Dwights data, but I do know  
10 they were unable to get sustained production from  
11 the Martha Creek No. 1.

12 At the time that it went inactive in  
13 1985, it had produced just under 8 Bcf of gas.

14 Q. Let me have you look at page 2 of  
15 Exhibit 2.

16 A. Page 2 shows the production curve for  
17 the Martha Creek No. 2, the replacement well. It  
18 came on in 1985. It was basically about a  
19 two-million-a-day producer. To date it has made  
20 approximately 4 Bcf.

21 You can see, at the very end of the  
22 curve there, where the production drops off  
23 steeply, at that time and in late 1991, we  
24 experienced some down time; and, as a result of  
25 that down time, in both instances, we had trouble

1 getting the well back on to production.

2 In late 91, we actually had to go back  
3 in and re-perforate the well to get it back to  
4 that roughly million-and-a-half per day. Right  
5 now we're working with the well, and we've got it  
6 back up to roughly 650 Mcf a day. We've got some  
7 more work we're going to do on it. We're going  
8 to try to get it back to, roughly, 1.2 million a  
9 day, which is what it was producing before we had  
10 to shut the well in.

11 Q. Why was the well shut in in 93?

12 A. The well was shut in, I believe, to do  
13 maintenance on the gas processing plant, I  
14 believe. But this is another reason for our  
15 request for increased allowable. We don't want  
16 to run into this situation again, where the well  
17 is shut in and loads up on us.

18 As the proposed schedule is set forth  
19 right now, a non-marginal proration unit has a  
20 rate of approximately 900 Mcf a day. At 900 Mcf  
21 a day, if we get this thing back up to 1.2  
22 million, we're looking at a situation where we're  
23 either going to have to curtail production or  
24 produce it at the full rate and shut it in, and  
25 we want to avoid that situation also.

1 Q. If you produce it at the full rate and  
2 then are required to shut it in, do you have an  
3 opinion as to whether or not you'll have any  
4 difficulties in bringing the well back on line?

5 A. Yes, I think it's very likely that we  
6 would, at least at that full rate.

7 Q. Let me have you look at page 3 now,  
8 which is a P over Z curve, is that correct?

9 A. This is a P over Z curve for the Martha  
10 Creek No. 2, and it shows that, assuming we get  
11 the well back up to its full rate, we believe  
12 that, and an abandonment pressure of about 600  
13 pounds, which is the operating line pressure in  
14 the area, that we'll recover 6 Bcf from that  
15 well.

16 Q. Now the last page of Exhibit 2, please  
17 review that.

18 A. The last page of the graph is bottom  
19 hole pressure versus time, and shows the bottom  
20 hole pressure history of both the Martha Creek  
21 No. 1 and Martha Creek No. 2.

22 I think this is the exhibit that really  
23 drives home the point that the existing wells  
24 aren't recovering all the gas underlying the  
25 unit. The Martha Creek No. 1 produced for, right

1 at, I guess, 20 years, until 1985, when the well  
2 was lost for mechanical reasons.

3 There are two points after that. There  
4 was no protection before those two points. We  
5 had bottom hole pressure of about 1,500 pounds at  
6 that time. The reasoning for drilling the Martha  
7 Creek No. 2 was that we've made 8 Bcf, going from  
8 4,700 to 1,500. We'll put a replacement well in  
9 there and get the rest of the gas, but the Martha  
10 Creek No. 2 came in 2,000 pounds higher, so there  
11 was significant pressure left in the section.

12 In addition to that, in the two years  
13 following 1985, where pressures were measured for  
14 the Martha Creek No. 1, you can see that the  
15 pressure has continued to increase on that well,  
16 very slowly building. In my opinion, it's an  
17 indication that that well, because it is building  
18 so slowly, probably wouldn't have recovered, if  
19 it had stayed active, all the gas underneath that  
20 unit, just due to low permeability.

21 Q. Do you have any pressure tests on the  
22 No. 1 after 1987?

23 A. No, I don't.

24 Q. Any other comments you would like to  
25 make about that?

1           A.       No.

2           Q.       Let me have you look at Exhibit No. 3.  
3           Which is your gas in place calculation. Can you  
4           review that for the Commission?

5           A.       Yes. The key part of this exhibit  
6           is the bottom half, where the actual gas in place  
7           calculation is. The top half of this exhibit  
8           shows the calculation of the formation volume  
9           factor, which is a conversion factor for  
10          reservoir cubic feet to standard cubic feet.

11                    That formation and volume factor goes  
12          into the gas in place equation, which is about  
13          mid-way down on the exhibit, as well as these  
14          other parameters.

15                    The table right below that equation,  
16          you can see that the first column is the Morrow  
17          sand. There are five different distinct loaves,  
18          if you will, of Morrow sand, that underlie this  
19          section. All five intervals are seen in both the  
20          Martha Creek No. 1 and the No. 2 and our  
21          geologists have mapped all five intervals across  
22          the section.

23                    The acre-feet are volumes of reservoir  
24          that underline the section for each of those  
25          sands. The porosity and water saturation values

1 are provided from our geologist, from log  
2 calculations.

3 These numbers, as well as the formation  
4 volume factor, are inserted into the gas in place  
5 equation, to calculate the last column, which  
6 shows the gas in place in each of those intervals  
7 underlying the unit.

8 You can see, at the bottom, that  
9 there's a total of 22.5 Bcf original gas in place  
10 underlying the unit.

11 Q. That would be underlying Section 30, is  
12 that correct?

13 A. Right. Uh-huh.

14 Q. Let me have you look at Exhibit 4.  
15 You've calculated the remaining gas after the  
16 production that you've experienced from the No. 1  
17 and the No. 2, is that correct?

18 A. Yes. Starting from the top, the  
19 original gas in place, once again, was 22.5 Bcf.  
20 The recovery factor is based on the difference  
21 between the initial pressure and the abandonment  
22 pressure at system operating pressure of 87  
23 percent, which gives you recoverable gas  
24 underlying the unit of 19.6 Bcf.

25 The Martha Creek No. 1 made 8 Bcf. The

1 Martha Creek No. 2 will, if we get production  
2 reestablished, will make 6 Bcf, for a total of 14  
3 Bcf, which means there's 5.6 Bcf of recoverable  
4 gas underlying the unit.

5 Q. In your opinion, is it necessary to  
6 drill another well in Section 30 in order to  
7 recover those remaining reserves?

8 A. Yes, it is.

9 Q. Have you made any calculations or  
10 estimates of the number of acres that each of  
11 these wells in Section 30 has or will drain?

12 A. Yes. The drainage area for the Martha  
13 Creek No. 1 was, I believe, 276 acres. The  
14 Martha Creek No. 2, at 6 Bcf, will drain 189  
15 acres. We're projecting 3 Bcf for the new  
16 location, which would drain 99 acres.

17 Q. Let me have you look now at Exhibit No.  
18 5. This exhibit contains your request for  
19 allowable to the Commission, is that correct?

20 A. Yes.

21 Q. Would you review that, please?

22 A. The allowable request for Martha Creek  
23 No. 2 is 36,750,000 a month. That's based on a  
24 daily rate of 1.225 million cubic feet per day,  
25 which was the rate in the Martha Creek No. 2



1 before we experienced our fluid loading problems,  
2 or actually, we had to shut the well in for the  
3 plant maintenance.

4 The allowable requested for the Martha  
5 Creek No. 3 is 60,000,000 cubic feet per month,  
6 and that's based on an initial rate of two  
7 million a day for that proposed drilling  
8 location. That gives you a total Martha Creek  
9 unit allowable request of about 97 million cubic  
10 feet a month.

11 The total pool acreage factor for the  
12 Indian Basin Morrow field is 2.08; the Martha  
13 Creek acreage factor is 1.08. So, going down  
14 here to the Indian Basin pool, the non-marginal  
15 allowable that would be required to provide the  
16 unit allowable that we're requesting, would be  
17 that allowable that we're requesting divided by  
18 our 52 percent share of the non-marginal gas  
19 production, or, in other words, the 97,750,000  
20 divided by .51923, which is a total of  
21 186,000,000 cubic feet a month.

22 In other words, if there's 186,000,000  
23 cubic feet a month assigned to non-marginal  
24 wells, and you multiply it times our percentage  
25 of the total pool, that will provide our 96

1 billion a month. We had to back into that  
2 number.

3 According to the proposed schedule,  
4 there will be 41,468,000 cubic feet a month  
5 assigned to marginal wells, so the total pool  
6 allowable that we're requesting is the sum of the  
7 two, or 227,000,000 cubic feet a month.

8 Q. Let me have you look now at Exhibit 6,  
9 which is a gas marketing projection. Did you  
10 receive this from your gas marketing department  
11 at Kerr-McGee?

12 A. Yes, I did.

13 Q. What's your understanding of whether  
14 there will be any market constraints or  
15 curtailments of the production from the Martha  
16 Creek unit?

17 A. My understanding of this document  
18 prepared by our gas sales department is that we  
19 will be able to market any gas that we develop by  
20 drilling that well.

21 Q. Is it your opinion, Mr. Roeffers, that  
22 you will be able to sell production at the levels  
23 of the allowable that you're requesting?

24 A. Yes.

25 Q. Mr. Roeffers, were Exhibits 1 through 6

1 prepared by you or under your direction and  
2 supervision?

3 A. Yes, they were.

4 MS. AUBREY: I offer Exhibits 1 through  
5 6.

6 CHAIRMAN LEMAY: Without objection,  
7 Exhibits 1 through 6 will be admitted into the  
8 record.

9 MS. AUBREY: That concludes my direct  
10 examination.

11 CHAIRMAN LEMAY: Thank you. Additional  
12 questions of the witness? Commissioner Bailey.

13 EXAMINATION

14 BY COMMISSIONER BAILEY:

15 Q. When do you expect the Martha Creek No.  
16 2 to be able to prove out whether or not it's  
17 going to be able to return to the original  
18 production levels?

19 A. I don't know. We're working on it  
20 right now. We're having to drop soap sticks into  
21 the well daily just to keep it producing at 650  
22 Mcf a day. We have an AFE for management to  
23 install a dip tube to drop down from our packer  
24 into the perforations, to try to give us  
25 increased velocity to lift that fluid. Our

1 operations people feel that that will probably  
2 reestablish the production, hopefully, within a  
3 month.

4 Q. Is it perforated in all the zones that  
5 are listed in Exhibit No. 3?

6 A. The Martha Creek No. 1 is perforated in  
7 all five of those intervals. The Martha Creek  
8 No. 2 is perforated in all but the Upper Morrow.

9 COMMISSIONER BAILEY: That's all for  
10 right now.

11 CHAIRMAN LEMAY: Commissioner Weiss?

12 EXAMINATION

13 BY COMMISSIONER WEISS:

14 Q. What is the fluid that loads up in  
15 there?

16 A. Water. Probably some small amount of  
17 condensate production, also.

18 Q. Is it water drive, do you think?

19 A. No. I do believe that there is some  
20 mobile water. I've heard people theorize that  
21 there may be some edge water drive. I don't  
22 really think there's enough data on the pool to  
23 tell. It certainly isn't the classic water-drive  
24 reservoir that you have in the Indian Basin Penn.

25 Q. You mentioned you thought the No. 2

1 drained 225 acres, is that right?

2 A. No. No. 2 was 189.

3 Q. And No. 1 was 225?

4 A. Was 276.

5 Q. Yet the pressure went up in No. 1?

6 A. Yes. Just sitting there shut in, very  
7 slowly the pressure kept bleeding in toward that  
8 location. I think it's a pretty good indication  
9 that that well, because it built so slowly,  
10 probably wouldn't have recovered all those  
11 reserves, had it been on line to keep producing.

12 Q. You think you would see some  
13 interference, and you certainly don't. That's a  
14 mystery, in my mind?

15 A. I think it shows you need more wells to  
16 drain the section. The gas is there. There's no  
17 doubt it's there. The pressure is there.

18 COMMISSIONER WEISS: I agree. That's  
19 all the questions I have. Thank you.

20 EXAMINATION

21 BY CHAIRMAN LEMAY:

22 Q. The spacing in there is 320, is it?

23 A. It's 640.

24 Q. 640?

25 A. Yes, sir.

1 Q. Doesn't sound like they'll drain 640,  
2 does it?

3 A. Not in this particular case, no.

4 Q. What do you know about that well in  
5 Section 36, which I take it is the other  
6 non-marginal well, the Lowe State No. 2?

7 A. It's a fairly new well, as you can see  
8 from the completion date, 1/92. I don't know if  
9 it's open in all of the intervals. Section 30  
10 happens to sit right on top of the structure  
11 here, and that's why all five of the intervals  
12 are gas-bearing in Section 30, and why we have so  
13 much gas under place. You rapidly go  
14 off-structure when you go down from Section 30.

15 Q. I guess my question revolves more  
16 around, do you happen to know if that well is  
17 curtailed because it's an unorthodox location and  
18 the Commission penalized the allowable on that?

19 A. I don't believe that it is. The reason  
20 I say that is, just looking at the production  
21 decline curve on it, it's got a fairly--.

22 MR. STOVALL: Mr. Chairman, I'm not  
23 sure that that is the other non-marginal  
24 proration unit, from looking at the proration  
25 schedule, just for your information.

1           If I may ask, is this the entire pool?

2           THE WITNESS: There are some other  
3 wells up to the northwest, but they're all shut  
4 in. These are all the active wells. If you  
5 look at the rate on that well in the southwest  
6 corner of 36, it's 500 Mcf a day in the first  
7 three months of the year. There's no other well  
8 in here that approaches that.

9           Q.       (BY CHAIRMAN LEMAY) My concern, and  
10 maybe this is where we're trying to get at, is  
11 that rate could be a curtailed production rate  
12 based on an allowable assigned to the pool and,  
13 therefore, wouldn't fluctuate with the allowable  
14 because it is unorthodox?

15          A.       And, once again, this is just my  
16 opinion, looking at that decline it looks like  
17 it's on a fairly natural and not like a well  
18 that's been curtailed at a particular rate.

19          Q.       I think we could probably investigate  
20 that. The reason why I brought it up, have you  
21 looked into trying to get a hardship  
22 classification for your wells? I take it your  
23 shut in has been strictly related to the plant  
24 and not because you exceeded your allowable?

25          A.       Right, and we have considered that. We

1 decided at this time just to ask for a particular  
2 allowable that would guarantee that if we drill  
3 this well, that we'll be able to sell our gas.

4 It's possible that, in the future,  
5 because of this loading problem, that we would  
6 want to try to get some type of minimum  
7 allowable.

8 Q. There again, pursuing this, if, in  
9 fact, there is a curtailed allowable because of  
10 the Lowe State No. 1, by increasing the allowable  
11 we would be, in essence, maybe lifting the  
12 restriction on that well, the curtailed  
13 allowable, because it would apply to all wells in  
14 the field?

15 A. Yes. And I believe right now, if I  
16 understand your question right, at 900 Mcf a day,  
17 which is the proposed proration unit non-marginal  
18 well, and this well doesn't make that much  
19 anyway, so there's already room for it.

20 Q. I don't think you understand my  
21 question. It may make that because that's all we  
22 allow it to make. We may have restricted it to  
23 50 percent of the allowable in the pool. That  
24 may be the reason why it doesn't show up, but it  
25 is capable of producing more.



1           A.       Yeah.

2           Q.       And I don't know that. I'm just saying  
3 that, if we take your recommendation, it will  
4 affect more than just your development in Section  
5 30, and you have to look at that?

6           A.       Right.

7           Q.       And, if it would affect other wells,  
8 one other alternative would be to encourage you  
9 to apply for a hardship classification because of  
10 the water, and then you would have no  
11 restriction, basically?

12          A.       Certainly, if that's the case, Kerr  
13 McGee would want to come back to you and ask for  
14 that situation.

15                   CHAIRMAN LEMAY: Sure. I was just  
16 bringing that up. You have to look at all other  
17 wells. Commissioner Weiss?

18                               EXAMINATION

19                   BY COMMISSIONER WEISS:

20          Q.       When you were reviewing the production  
21 curves, that well in Section 20, No. 6, did it  
22 show any effect when drilling No. 2?

23          A.       Actually, that well in Section 20 came  
24 in at a very high pressure, an extremely high  
25 pressure. And it was drilled fairly late, in

1 1988. It didn't show depletion, if you will,  
2 from offset wells. I think it might be more of  
3 an indication of the quality of the reservoir  
4 rock there. I do know that they're not opening  
5 all the sections, too, because, once again,  
6 they've come off-structure.

7 Q. So that was drilled, looking at your  
8 pressure chart, your exhibit where you have  
9 pressure versus time in Exhibit 2?

10 A. Right, and that was drilled in 1988.

11 Q. And, after that, the pressure declined  
12 less rapidly in 92?

13 A. Yes.

14 COMMISSIONER WEISS: That's all the  
15 questions I have.

16 CHAIRMAN LEMAY: Additional questions  
17 of the witness? If not, he may be excused.

18 MS. AUBREY: That concludes my  
19 presentation.

20 CHAIRMAN LEMAY: What are we left  
21 with? The Indian Basin Upper? Is there anything  
22 else besides the Indian Basin Upper?

23 MR. CARR: At this time, we call Brian  
24 Huzzey.

25 **BRIAN HUZZEY**

1 Having been first duly sworn upon his oath, was  
2 examined and testified as follows:

3 EXAMINATION

4 BY MR. CARR:

5 Q. Would you state your name for the  
6 record?

7 A. Brian Huzzey.

8 Q. Where do you reside?

9 A. Midland, Texas.

10 Q. By whom are you employed and in what  
11 capacity?

12 A. Chevron, U.S.A., as a petroleum  
13 engineer, over several fields in Eddy County, New  
14 Mexico.

15 Q. In your current position with Chevron,  
16 are you required to become familiar with the  
17 prorationing system for Southeastern New Mexico?

18 A. Yes, I am.

19 Q. Have you testified in previous  
20 allowable hearings?

21 A. Yes, I have.

22 Q. At the time of that testimony, were  
23 your credentials as a petroleum engineer accepted  
24 and made a matter of record?

25 A. Yes, they were.

1 Q. Are you familiar with Chevron's efforts  
2 in the Indian Basin Upper Penn pool in the last  
3 few years to improve the capabilities of that  
4 field?

5 A. Yes, I am.

6 Q. Are you familiar with the OCD's  
7 preliminary nominations for this pool?

8 A. Yes, I am.

9 MR. CARR: Are the witness's  
10 qualifications acceptable?

11 CHAIRMAN LEMAY: His qualifications are  
12 acceptable.

13 Q. Are you prepared to make certain  
14 recommendations today concerning adjustments to  
15 the preliminary nominations?

16 A. Yes, I would.

17 Q. In that regard, could you explain to  
18 the Commission, what is Chevron's purpose in the  
19 hearing here, with regard to this particular  
20 field?

21 A. Chevron would like to take this  
22 opportunity to inform the Commission of its  
23 activities in the Indian Basin field. Our  
24 activities and this information we hope will aid  
25 the Commission in determining an acceptable and

1 appropriate allowable for the October through  
2 March 1994 period.

3 Q. You've indicated Chevron will make a  
4 recommendation concerning the allowable.  
5 Basically, what is it?

6 A. Chevron's recommendation is that the  
7 Commission leave in place its current allowable  
8 of 196,500 Mcf per month.

9 Exhibit 1 is a representation of the  
10 OCD's allowable format, spanning the Southeast  
11 gas proration schedule. If you'll look at this  
12 exhibit, in column 3 you'll see Chevron's  
13 proposed adjustments to the preliminarily  
14 allowable as set out by the OCD.

15 We're recommending an adjustment  
16 176,697 Mcf to the average monthly pool sales.

17 Continuing down through the table, this  
18 basically runs out to be 196,500 Mcf per month  
19 allocation factor, which Chevron supports and  
20 which is currently in place.

21 This number is based on production from  
22 March, April, May and July of this year. We  
23 excluded June, due to seven and a half days of  
24 plant down time, plus additional down time that  
25 operators chose to take to gather more

1 information on the field, and to take advantage  
2 of the plant down time.

3 Q. So, when you make the basic  
4 adjustments, what you come down to is a monthly  
5 acreage allocation factor of 196,500 for October  
6 of 93 through March of 94?

7 A. Correct.

8 Q. What facts are you utilizing on a basis  
9 for this recommendation?

10 A. Okay. Current production in this field  
11 has increased dramatically since last October,  
12 due to the continuing efforts of both Chevron and  
13 other operators in this field, both on equipment  
14 and well workovers.

15 If you'll look at Exhibit No. 2, it  
16 represents the production history from March,  
17 April and May of 1993 for the Indian Basin Upper  
18 Penn gas pool. This is from the OCD committee  
19 books, as well as the May production is from the  
20 C-115s from the plant--correction, from the  
21 residue gas plant statements from the Indian  
22 Basin gas plant.

23 One thing I would like to point out  
24 initially, the shaded wells are all or will all  
25 be non-marginal wells under the preliminary

1 allowable.

2           Basically, five of Chevron's 10 wells  
3 will be non-marginal, two of Marathon's wells  
4 will be non-marginal, four of ORYX's five wells  
5 will be non-marginal, so we'll have 11 of 34  
6 wells in the field which would be non-marginal  
7 under the preliminary as proposed by the OCD.

8           And Chevron has continuing efforts or  
9 plans for our wells in this field, which we could  
10 get up to eight or nine of our wells being  
11 non-marginal by the end of this year.

12           Q.       What is Chevron's position in this  
13 field?

14           A.       Okay. If you'll look at Exhibit No. 3,  
15 it shows the production since August of 1992 in  
16 the Indian Basin Upper Penn gas pool. One thing,  
17 if you'll notice, there's a notation in the  
18 middle of the graph showing Chevron's well work,  
19 and it also, the black line indicates the total  
20 pool production, red is Chevron's, blue is  
21 Marathon, ORYX is represented in sort of a purple  
22 shape, and MW is the only other somewhat major  
23 producer in this pool.

24           The emphasis on this graph, Chevron  
25 currently produces 39 to 40 percent of the pool

1 production. Also, if you look at the time frame  
2 from November through February, there's a big dip  
3 in December, where we took a lot of our wells  
4 down and did additional well work.

5 The time from November through  
6 February, there's a big dip in December, where we  
7 took a lot of our wells and were having to do  
8 additional well work, and we had a tremendous  
9 number of well days that our wells were down  
10 while we were working on them.

11 So, if you use the October of 92  
12 through March of 93 production, it's not  
13 representative because we had a lot of wells down  
14 for workovers. So, basically the number that the  
15 OCD had from pool sales is skewed to the low  
16 side, due to well work.

17 Q. Mr. Huzzey, could you now review for  
18 the Commission the workover and equipment  
19 modification program that Chevron has implemented  
20 in this field?

21 A. Okay. If you'll look at Exhibit No. 4,  
22 you'll see this is the Federal 33 Gas Com #1.  
23 This is the daily wellhead production.

24 If you'll look in September of 1992,  
25 this well is making approximately 3,700 Mcf a



1 day. We made some very quick. Very simple  
2 modifications in surface facilities, and  
3 substantial increase in production.

4 Then, in December, we changed out our  
5 tubing stringer, primarily, saw a very  
6 significant increase in production. And then in  
7 January of this year we did some additional work,  
8 added perforations and stimulated the well. And,  
9 as you can see, there's a red line that is the  
10 current allowable and shows the historical  
11 allowable for this field. After our work in  
12 January, this well exceeded the current allowable  
13 in the field.

14 The other line, if you'll notice, it  
15 has the notation flow "OCD preliminary  
16 allowable," about 5,700 Mcf per day. This well  
17 is well in excess of that number and has been  
18 since January of this year.

19 Q. You have similar exhibits for the other  
20 wells in the pool?

21 A. Yes. These exhibits have been prepared  
22 to show that at 5,700 Mcf per day, half of  
23 Chevron's wells historically have been over that  
24 limit. And recent work we've done in July made  
25 at least one more well over. As I stated, we

1 could have eight or nine of our ten wells being  
2 non-marginal.

3 Q. The subsequent exhibits each have a  
4 line across them that indicates the OCD's  
5 preliminary allowable figure?

6 A. Yes.

7 Q. Let's go to the Helbing Federal Gas Com  
8 #1, your Exhibit No. 5. Could you review this?

9 A. Okay. Exhibit No. 5 shows this well is  
10 making 5,300 to 5,400 Mcf per day right now.  
11 What I mentioned earlier, while the Indian Basin  
12 gas plant was down, we did some additional  
13 testing, and with that testing and nodal  
14 analysis, we've determined that this well can  
15 produce well in excess of this amount.

16 AFE's that have recently been submitted  
17 and approved by Parkers, should get this well to  
18 exceed the preliminary allowable substantially,  
19 and it should be done within the next 15 to 20  
20 days.

21 Q. All right. Let's go to Exhibit No. 6.

22 A. This is the Bogle Flats Unit No. 1.  
23 This is one of the wells which we worked over in  
24 July. We worked over two of them to try to get  
25 their production up to what we felt was an

1     adequate volume.  If you'll notice right now, on  
2     the very far right-hand side of the graph, it has  
3     exceeded the OCD's preliminary allowable, and  
4     this well is still cleaning up and is currently  
5     making 5,800, 5,900 Mcf per day and we expect it  
6     to go up some more.

7             Q.     Now the Bogle flats No. 2, Exhibit 7.

8             A.     Exhibit 7 indicates a little bit of a  
9     problem we had with the new treatment, which we  
10    tried.  It was unsuccessful.  Production was  
11    actually decreased in the February/March period.

12            We tried several things over the  
13    subsequent months, and until July of this year we  
14    were unable to get this well's production back up  
15    to previous levels.  However, right now, again,  
16    since our work in July, the production is up and  
17    it's still inclining, so we're hoping it will be  
18    5,700, 5,800 Mcf per day in the near future.

19            Q.     Let's go now to Exhibit No. 8, Bogle  
20    Flats Unit #3?

21            A.     Exhibit 8 is one of our two most  
22    productive wells in this field.  Again, we  
23    basically did the same type of well work which we  
24    did on the Federal 33 No. 1, surface equipment  
25    works, tubing, changeouts, well workovers.

1           It's consistently produced well in  
2 excess of 7 million a day, so at this time it's  
3 in an overproduced status and we'll have to  
4 curtail its production sometime later this year  
5 or in the next proration period due to the  
6 productivity of this well.

7           Q.       Let's go now to the exhibit on the  
8 Bogle Flats Unit #4, Exhibit 9. Would you review  
9 that for the Commission?

10          A.       This, again, is just to emphasize the  
11 fact that we have several wells that are well in  
12 excess of 7 million a day, which means that even  
13 at the current or recommended allowable, which  
14 Chevron recommends, 196,500, we will have to  
15 curtail production in this well as well.

16          Q.       What about Exhibit 10?

17          A.       This well, if the Commission's  
18 preliminary number is accepted, this will exceed  
19 and accrue overproduction and will have to be  
20 curtailed. This shows the number of wells that  
21 Chevron has that will have to be curtailed under  
22 the 5,700 preliminary allowable.

23          Q.       The final exhibit, Bogle Flats Unit #8?

24          A.       Again, this shows consistent  
25 overproduction at the Commission's preliminary

1 allowable.

2 Q. Mr. Huzzey, if the allowable adjustment  
3 that Chevron is making is, in fact, adopted, will  
4 that result in allowables that more accurately  
5 reflect the ability of the wells in this pool to  
6 produce?

7 A. Yes. From talking with other  
8 operators, they've had very successful programs,  
9 too, and I'm sure the testimony will be presented  
10 subsequent to mine, that there are quite a few  
11 wells out here that can produce well in excess of  
12 the current allowable, 6,460 Mcf per day.

13 And, as stated previously, if the  
14 Commission's preliminary allowable is accepted,  
15 we would have probably 11 to 13 wells which would  
16 exceed that preliminary level, and be  
17 non-marginal and their production would have to  
18 be curtailed. So, over 30 percent of the field  
19 would be curtailed at a 5,700 Mcf per day  
20 allowable.

21 So, we feel that we need a higher  
22 allowable to allow adequate production from all  
23 operators.

24 Q. Do you have any further information you  
25 wish to share with the Commission?

1 A. No.

2 Q. Were Exhibits 1 through 11 prepared by  
3 you?

4 A. Yes.

5 MR. CARR: At this time, we offer  
6 Chevron Exhibits 1 through 11.

7 CHAIRMAN LEMAY: The exhibits will be  
8 admitted in the record without objection.

9 MR. CARR: Thank you. That concludes  
10 my direct examination of this witness.

11 CHAIRMAN LEMAY: Questions of the  
12 witness? Commissioner Bailey?

13 COMMISSIONER BAILEY: Nothing.

14 CHAIRMAN LEMAY: Commissioner Weiss?

15 COMMISSIONER WEISS: Yes.

16 EXAMINATION

17 BY COMMISSIONER WEISS:

18 Q. What kind of treatment did you use on  
19 Bogle Flats No. 2, Exhibit 7, that didn't work  
20 out so well?

21 A. Actually, the No. 1 and No. 2 we  
22 modified the treatment, trying to get more  
23 effective diversion into the different zones that  
24 perforated. Unfortunately, we were successful;  
25 however, the diverter we used, we were unable to

1 get that to come back, as it were.

2 Q. Is it a gel or something?

3 A. No. Actually, it's a modification in  
4 the procedure we used on the other wells. We  
5 just added more stages of the diversion. We were  
6 successful. We did divert into more zones;  
7 however, it didn't clean up as well as it had  
8 previously, so we had to go back in and  
9 reperforated the wells and restimulated, and  
10 isolated the zones and got the wells back up.

11 COMMISSIONER WEISS: Thank you.

12 CHAIRMAN LEMAY: No questions.

13 MR. CARR: Mr. LeMay, the only thing  
14 else I have to present for Chevron is a letter  
15 that we received from MW Petroleum supporting an  
16 increase in the allowables for this field, in  
17 line with what has been recommended by Chevron.

18 CHAIRMAN LEMAY: We'll just enter that  
19 in the record.

20 Mr. Kellahin.

21 **RICK HALL**

22 Having been first duly sworn upon his oath, was  
23 examined and testified as follows:

24 EXAMINATION

25 BY MR. KELLAHIN:

1 Q. Would you please state your name?

2 A. My name is Rick Hall.

3 Q. By whom are you employed and in what  
4 capacity?

5 A. I'm employed by Oryx Energy Company,  
6 and I'm the operations engineer for the Hobbs  
7 area, which includes the Indian Basin.

8 Q. Have you testified at prior Commission  
9 hearings on prorationing allowable schedules for  
10 the Indian Basin Upper Penn pool?

11 A. Yes, I have.

12 Q. In your capacity as operations engineer  
13 for your company, are you directly involved with  
14 production of the wells in the Indian Basin,  
15 Upper Pennsylvanian gas pool?

16 A. Yes, sir, I am.

17 Q. Based upon that personal involvement,  
18 do you have recommendations for the Commission  
19 concerning the allowables for this next proration  
20 period?

21 A. Yes, sir.

22 MR. KELLAHIN: We tender Mr. Hall as an  
23 expert witness.

24 CHAIRMAN LEMAY: His qualifications are  
25 acceptable.



1 Q. Before we look at the specifics of your  
2 package of documents, tell us the bottom line.  
3 What, if any, adjustment do you recommend to the  
4 Commission that they make for this pool?

5 A. We recommend basically the same number  
6 as Chevron has recommended, the 196,500, which is  
7 currently the allowable that the Commission  
8 granted us in the last period and also the  
9 previous period.

10 We feel like this will allow for  
11 production stability in the field. This would  
12 put us for about a year and a half at the same  
13 volume. Also, if we go back to the Commission's  
14 proposed volume, it may not meet the seasonal  
15 demand of the production of the field.

16 Q. If we look at this level of allowable,  
17 should the Commission adopt the adjustment, have  
18 you or others on your behalf, or Oryx, determined  
19 if there is market demand for gas at that rate?

20 A. Yes, I have, and we have plenty of  
21 market demand, and we have a person that I'll let  
22 speak for that.

23 Q. Are you aware of any limitations within  
24 the pool, or in the gathering of production from  
25 the pool, to take this volume of gas to market?

1           A.       No.

2           Q.       Describe for us the status of your  
3 wells.

4           A.       Let's turn to Exhibit 2. Exhibit 2  
5 lists each of our wells that we operate. This is  
6 for the summer period. On the right-hand column  
7 is the volume that we predict that the wells will  
8 make for the summer period.

9                   As you can see, looking down the  
10 right-hand column, we will have three wells that  
11 will exceed the current Commission allowable of  
12 172.012, and would fall within the proposed  
13 196,500. We would only have one well at the  
14 current level.

15          Q.       Do you have a table that shows us the  
16 impact on your wells for what we'll characterize  
17 as the winter period?

18          A.       Yes.

19          Q.       Let's turn to that.

20          A.       The next exhibit is a history of the  
21 winter period gas proration schedule for 92  
22 through March of 93. Then, the actual protection  
23 for 92 to March of 93, and then our current  
24 estimate for our wells for the upcoming period.

25                   With this slide, we see that four of

1 our wells would exceed the Commission's proposed  
2 172, and you'll also note that three of the wells  
3 would also exceed the Oryx-proposed 196,500.

4 Q. Let me have you turn now to Exhibit 4.  
5 Identify and describe that.

6 A. Okay. Exhibit 4 is just a production  
7 curve, gas Mcf per day versus time, for the Oryx  
8 Energy Company-operated wells. Basically, as  
9 Chevron's indicated, we've also done workovers.  
10 You can see the upper trend in the production,  
11 and we're asking that the allowable at least be  
12 held flat. If we bring the allowable back down,  
13 then we're going to be overproducing.

14 Q. Give us a summary of the chronology of  
15 the recent activity in Indian Basin Upper Penn.  
16 Initially, I believe, Marathon was the operator  
17 that undertook the workover project to increase  
18 production from certain of its wells and then, I  
19 believe, Oryx was next in line?

20 A. That's correct. Marathon started in  
21 91, basically. Oryx started their work in  
22 January or February of 92, and Chevron has  
23 followed and has done their work. Basically, at  
24 this point, when Chevron finishes their work,  
25 we'll have all worked our wells over and

1 increased the volumes.

2 Q. All right. Of the wells that you  
3 worked over, how many total wells did you have in  
4 the pool?

5 A. We have five wells that we worked over.

6 Q. Does that represent all the wells that  
7 you have in the pool?

8 A. We have six, but one of them is TA'd.

9 Q. So you've completed all that workover  
10 activity for your wells?

11 A. Yes, we have.

12 Q. In summary, then, what is the reason  
13 for your recommendation of the 196,500  
14 adjustment?

15 A. Our reason for the 196,500 is just to  
16 prevent overproduction of the wells that we  
17 currently operate. And, at the Commission's  
18 level, it would be even more overproduction.

19 Q. Using the 196,500 adjustment, that, at  
20 least, makes consistent producing allowables that  
21 you've utilized in the pool for the last two  
22 periods?

23 A. Exactly.

24 MR. KELLAHIN: That concludes my  
25 examination of Mr. Hall. We move the

1 introduction of his Exhibits 1 through 4. The  
2 last exhibit is the next witness's exhibit.

3 CHAIRMAN LEMAY: Exhibits 1 through 4  
4 will be admitted into the record.

5 Questions of the witness?

6 COMMISSIONER BAILEY: No questions.

7 COMMISSIONER WEISS: No questions.

8 CHAIRMAN LEMAY: Nor do I. Thank you  
9 very much.

10 THE WITNESS: Thank you.

11 **TOM STRICKLAND**

12 Having been first duly sworn upon his oath, was  
13 examined and testified as follows:

14 EXAMINATION

15 BY MR. KELLAHIN:

16 Q. Mr. Strickland, for the record, would  
17 you please state your name and occupation?

18 A. My name is Tom Strickland. I'm  
19 currently employed with Oryx Energy Company as a  
20 gas supply representative in the gas marketing  
21 group.

22 Q. As part of your duties as a gas supply  
23 representative, are you involved in a personal  
24 way with the production that your company has in  
25 the Indian Basin Upper Penn gas pool?

1           A.     Yes, sir, I am.

2           Q.     What is it that you specifically do  
3 with that production?

4           A.     My job in the marketing department is  
5 dealing with the forecasting of the gas supply  
6 that is going to be available, and dealing with  
7 any term contracts, sales contracts, long-term  
8 sales contracts, and providing numbers for the  
9 spot supply, our spot sales volumes, to be sold  
10 on the spot market.

11          Q.     When your operations engineer, Mr.  
12 Hall, described your having contacted someone in  
13 Oryx to determine market demand for production  
14 from this pool, are you the individual that he  
15 discusses that issue with?

16          A.     Yes, sir, I am.

17          Q.     What have you determined to be the  
18 market demand for production from your wells  
19 within this source of supply?

20          A.     Based on historical market demand for  
21 our supply here, we have had no problem selling  
22 all the gas that we have produced from the Indian  
23 Basin plant, which is the sales point that we  
24 sell the gas at. We sell all the gas that is  
25 available at the plant.

1           Some of the things that makes this  
2 available to us to sell are innerconnects with  
3 other pipelines. We have the ability to take the  
4 gas to the West Coast, we have the ability to  
5 take the gas to the Midwest, to the Gulf Coast,  
6 and to markets within Texas.

7           To the West Coast would be El Paso,  
8 Transwestern. To the Gulf Coast would be the  
9 Valero pipeline. To inner Texas would be Lone  
10 Star. And we can leave it on NGPL and take it up  
11 to Midwest markets. Markets, based on historical  
12 and based on the ability to meet the supply in  
13 various markets, meet the demand in various  
14 markets, we feel confident that we'll still be  
15 able to sell all the gas.

16           Q.     Is the market demand, that you try to  
17 satisfy for your company's share of the gas,  
18 greater than the volume of gas being produced by  
19 your wells in this pool?

20           A.     Yes, sir. We see that we can sell  
21 every Mcf or MMBTU of gas that is produced.

22           Q.     What do you do, then, to satisfy the  
23 excess market demand that you can't achieve or  
24 satisfy with current production levels out of the  
25 pool?

1           A.       That gas would come from either other  
2 fields or other states or other production  
3 elsewhere.

4           Q.       Do you see any limitation within the  
5 system of gathering gas from the field and taking  
6 it to market that restricts the volumes of gas  
7 that can be produced from your wells?

8           A.       No, sir.

9           MR. KELLAHIN:   That concludes my  
10 examination of Mr. Strickland. We would move the  
11 introduction of his letter, which is Exhibit No.  
12 5.

13           CHAIRMAN LEMAY:   Thank you, Mr.  
14 Kellahin. Questions of the witness?  
15 Commissioner Bailey?

16           COMMISSIONER BAILEY:   No.

17           CHAIRMAN LEMAY:   Commissioner Weiss?

18           COMMISSIONER WEISS:   Yes.

19                           EXAMINATION

20           BY COMMISSIONER WEISS:

21           Q.       How many Mcf is 27 billion BTU?

22           A.       The BTU factor, I believe, is  
23 approximately 1.5 Mcf equals 1 MMBTU. So, the  
24 conversion that we use to convert Mcf to BTU  
25 would be at the plant tailgate, after the gas is



1 processed, would be 1.5. So, you take 1.5 times  
2 1 Mcf, and that gives you 1 MMBTU.

3 Q. This number here is 27 million,  
4 roughly, cubic feet per day?

5 A. Yes.

6 MR. HALL: Excuse me. It's 1.05.

7 A. Excuse me, yes. 1.05.

8 UNIDENTIFIED SPEAKER: Calculating  
9 tailgate BTU is 1.005. So, essentially, 1  
10 million BTU is really, essentially, 1 Mcf.

11 COMMISSIONER WEISS: Very good. Thank  
12 you very much.

13 CHAIRMAN LEMAY: That was my question,  
14 too. I have no questions. You may be excused.

15 MR. KELLAHIN: I would like to recall  
16 Ron Foltz.

17 **RONALD J. FOLTZ**

18 Having been previously duly sworn upon his oath,  
19 was examined and testified further as follows:

20 EXAMINATION

21 BY MR. KELLAHIN:

22 Q. Mr. Foltz, for the record, would you  
23 please state your name and occupation?

24 A. My name is Ronald J. Foltz, and I'm a  
25 senior reservoir engineer.

1 Q. You've previously testified about the  
2 Blinebry pool. Do you also continue with your  
3 prior duties as a proration engineer for  
4 production from your company's wells in the  
5 Indian Basin Upper Pennsylvanian gas pool?

6 A. Yes, sir, I do.

7 Q. Based upon the production from that  
8 pool, and your wells, do you have a  
9 recommendation to the Commission concerning what,  
10 if any, adjustments to make for the upcoming  
11 winter proration period?

12 A. Yes, sir, I do.

13 MR. KELLAHIN: We tender Mr. Foltz as  
14 an expert proration engineer.

15 CHAIRMAN LEMAY: His qualifications are  
16 acceptable.

17 Q. What are your recommendations, Mr.  
18 Foltz?

19 A. At this time, Marathon recommends that  
20 an adjustment on line 3, to the proration  
21 schedule, of 168,607, be made to increase the  
22 total pool volume, and with subsequent  
23 calculations result in 196,500 monthly acreage  
24 allocate factor, or F1 factor.

25 Q. You have a table among your exhibits

1 that shows how to make the adjustment and  
2 calculation, but the bottom line is that you and  
3 the other principal operators in this pool, at  
4 least for this next proration periods, have  
5 agreed to continue the levels of production for  
6 the non-marginal units?

7 A. Yes, sir, that's correct.

8 Q. It will be at the same rate that  
9 they're currently enjoying?

10 A. That's correct, yes.

11 Q. Let's turn to the first display and  
12 have you identify that for us?

13 A. Exhibit A is the Indian Basin field  
14 area, or acreage map, indicating the operators  
15 for different sections. The red, small red  
16 square or rectangle in Section 23 is the location  
17 for Indian Basin gas plant. The marginal wells  
18 are indicated within the colored area as the  
19 productive acreage. The green circles are what  
20 we consider to be the current non-marginal wells  
21 in the pool.

22 Q. Let's turn now to Exhibit B.

23 A. Exhibit B is the Indian Basin field  
24 total Upper Penn pool production, as obtained  
25 from C-111 data information. The history

1 information is from January 1992 through July of  
2 1993, with a projection or forecast of total pool  
3 production for August 1993 through March of  
4 1994. The allowable for the total pool is also  
5 indicated by the dashed line.

6 Q. What's the significance of this display  
7 to you?

8 A. The significance of this display is  
9 that the total pool production, during any given  
10 period, generally exceeds the allowable for the  
11 pool.

12 Q. Let's turn now to Exhibit C, and look  
13 at the calculation of how you propose to make the  
14 adjustment.

15 A. Exhibit C indicates that Marathon's  
16 proposing an adjustment of 168,607 Mcf, for a  
17 total of 3,889,514 Mcf per month. This was  
18 obtained by looking at a four-month average of  
19 production for March 1993, April and May,  
20 excluding June, and looking at July 1993's  
21 number. That four-month average resulted in  
22 right at 3.9 Bcf per month.

23 Continuing from there, depending on the  
24 acreage factor you see use in the calculations,  
25 we were able to come up with an average of, for

1 marginal pool allowable, of 2.9 Bcf, which  
2 results in 954,990, Mcf for the monthly  
3 non-marginal pool allowable. And then, using the  
4 non-marginal acreage factor of 4.86, results in  
5 the 196,500 F1 factor.

6 Q. It's been almost two years, if not  
7 more, since Marathon initiated an effort in prior  
8 proration hearings to increase the allowables in  
9 the pool, and we've gone through a number of  
10 rather contested hearings before this Commission  
11 for this same reservoir.

12 What is the current status of  
13 development and production in the pool that has  
14 caused this accommodation among the operators  
15 that, at least for this next period, there is  
16 some consensus on what to do for producing  
17 levels?

18 A. I believe primarily is the remedial  
19 work that has taken place over the last two  
20 years, where Marathon, then Oryx, then Chevron,  
21 and i'm including Apache, have been able to see  
22 the benefits of doing remedial work and  
23 increasing deliverabilities from the wells.

24 Q. One of the hopes and expectations early  
25 on was that this reservoir was a likely target

1 for unitization, and we had prior discussions  
2 about Marathon initiating unitization discussions  
3 among the operators for this pool. What has  
4 happened to that?

5 A. The unitization discussions continued  
6 through June of 1992, when we had a working  
7 interest owner meeting, and it was decided, or it  
8 was found, that we could not pursue unitization  
9 at that time due to lack of unanimous support by  
10 all the operators.

11 Q. You could not get at least enough  
12 agreement for a 75-percent consensus on how to  
13 formulate the unit and come up with participation  
14 parameters and a participation formula?

15 A. I believe, in this particular instance,  
16 being a gas reservoir, it would take 100 percent,  
17 or unanimous participation.

18 Q. There would have been no secondary  
19 efforts initiating pressure maintenance or for  
20 waterflooding any of the reservoir?

21 A. Not at this time.

22 Q. So you were stuck with 100 percent?

23 A. Right.

24 Q. What do you forecast as the likelihood  
25 that you will be able to unitize this pool in the

1       foreseeable future?

2           A.       There are still some discussions going  
3       on. We have yet to research a position where we  
4       feel we need to go ahead with those discussions.  
5       Marathon is looking at other alternatives to  
6       working toward maximizing recovery from the  
7       reservoir, and yet still protect correlative  
8       rights.

9           Q.       We have had prior discussions about  
10      bringing this reservoir back to the Commission,  
11      or the Division, to reinvestigate special pool  
12      rules by which we can make adjustments to protect  
13      correlative rights and maximize ultimate  
14      recovery. Is that still a consideration?

15          A.       Yes, it is.

16          Q.       Does your company have any concerns  
17      about the proration system, as it now affects  
18      production in the pool?

19          A.       The major concern from Marathon would  
20      be that as reservoir pressures decline, due to  
21      the higher withdrawal rates at some point,  
22      drainage or deliverabilities from some wells may  
23      not actually be representative of their  
24      production underlying those leases.

25          Q.       At least for this next winter proration

1 period, are you satisfied that if the Commission  
2 adopts this adjustment, that within a reasonable  
3 range we can protect correlative rights and  
4 prevent drainage among spacing units?

5 A. Yes, I do, during this period.

6 MR. KELLAHIN: That concludes my  
7 examination of Mr. Foltz. We move the  
8 introduction of his Exhibits A, B, and C.

9 CHAIRMAN LEMAY: Exhibits A, B, and C  
10 will be admitted into the record without  
11 objection. Questions of the witness?

12 COMMISSIONER BAILEY: Nothing.

13 COMMISSIONER WEISS: Just a comment. I  
14 would hope that you would pursue unitization. As  
15 I recall, this was an edge water drive?

16 THE WITNESS: That's correct.

17 COMMISSIONER WEISS: Because  
18 somebody's wells are going to get wet some day,  
19 and they'll want to say this or that. Maybe now  
20 is the time to address those problems, while  
21 there's still production.

22 THE WITNESS: Okay.

23 CHAIRMAN LEMAY: One quick one.

24 EXAMINATION

25 BY CHAIRMAN LEMAY:



1           Q.       On your Exhibit C, the difference in  
2 your marginal pool allowables between the OCD  
3 figures and those proposed by you, account for  
4 the difference in your adjustment, versus  
5 previous witnesses? In other words, you're  
6 asking the same thing as previous witnesses, it's  
7 only that the different that you came up with in  
8 the marginal well production that accounts for  
9 your difference in adjustment, is that right?

10           A.       That's correct. Yes, sir.

11                   CHAIRMAN LEMAY: I have no further  
12 questions. Thank you. Congratulations on  
13 prevailing with the other operators in the  
14 field. All of you are to be congratulated on the  
15 degree of cooperation you're finally showing.

16                   MR. KELLAHIN: He just had a brief  
17 statement he wanted to make.

18                   CHAIRMAN LEMAY: He's welcome to make  
19 that now, as a sworn witness, if he likes.

20                   MR. KELLAHIN: Why don't you go ahead,  
21 then.

22                   MR. FOLTZ: Marathon is one of several  
23 operators in the Indian Basin field. Production  
24 from Indian Basin is primarily from the Upper  
25 Penn reservoir.

1            Since first production began in the  
2 mid-60s, approximately 30 percent of the original  
3 productive acreage has been lost due to aquifer  
4 influx. Over the years, fuel production had  
5 declined to less than a hundred million cubic  
6 feet a day by 1990.

7            As a result of numerous well remedial  
8 programs by field operators, current rates  
9 average approximately 130 million cubic feet a  
10 day. At this time, Marathon Oil Company does  
11 support maintaining allowables, for non-marginal  
12 wells, at the current level of 196,500 Mcf per  
13 month, for an acreage factor of one.

14           However, future allowables proposed by  
15 Marathon may be reduced as a result of projected  
16 reservoir pressure decline and potential  
17 correlative rights issues. Marathon is concerned  
18 as to whether the current gas proration system  
19 for Indian Basin is structured to allow for  
20 maximum recovery of hydrocarbons and protection  
21 of correlative rights from the Upper Penn gas  
22 pool.

23           Prior attempts at unitization were  
24 frustrated by limited or no support from other  
25 operators. Marathon is evaluating other

1 alternatives to maximize recovery and to protect  
2 correlative rights for all leases, and will seek  
3 assistance from the New Mexico Oil Conservation  
4 Division in implementing future modifications.  
5 Thank you for your attention.

6 MR. KELLAHIN: That's all we have, Mr.  
7 Chairman..

8 CHAIRMAN LEMAY: Thank you, Mr. Foltz,  
9 appreciate it. Anything more? Statements in the  
10 proration hearing into the record?

11 Because we do want to get this wrapped  
12 up fairly quickly, what we'll do is we'll keep  
13 the record open for one week for additional  
14 statements.

15 MR. STOVALL: Mr. Chairman, I don't see  
16 any reason to keep it open for even a week. If  
17 there was some indication that we would have one,  
18 I would say fine. I think you can take it under  
19 advisement and proceed to act.

20 CHAIRMAN LEMAY: We won't delay that,  
21 then, if there's no one that needs to supplement  
22 the record. We'll take the case under  
23 advisement. Thank you very much.

24 (And the proceedings concluded.)

25

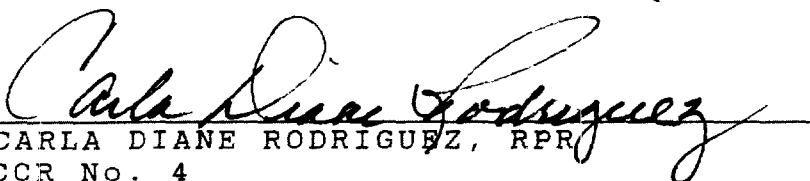
## 1 CERTIFICATE OF REPORTER

2  
3 STATE OF NEW MEXICO )  
4 COUNTY OF SANTA FE ) ss.  
5

6 I, Carla Diane Rodriguez, Certified  
7 Court Reporter and Notary Public, HEREBY CERTIFY  
8 that the foregoing transcript of proceedings  
9 before the Oil Conservation Commission was  
10 reported by me; that I caused my notes to be  
11 transcribed under my personal supervision; and  
12 that the foregoing is a true and accurate record  
13 of the proceedings.

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

19 WITNESS MY HAND AND SEAL September 20,  
20 1993.

21  
22  
23   
24 CARLA DIANE RODRIGUEZ, RPR  
25 CCR No. 4