

NEW MEXICO OIL CONSERVATION COMMISSION

COMMISSION HEARING

SANTA FE, NEW MEXICO

Hearing Date AUGUST 29, 1991 Time: 9:00 A.M.

NAME	REPRESENTING	LOCATION
JIM COLLIER	AMOCO PRODUCTION Co.	HOUSTON, TEXAS
W O Kellahan	Kellahan Kellahan andrews	Santa Fe
Mark Corley	Chevron U.S.A. Inc	Midland Tx
Alan Bohling	Chevron U.S.A. Inc	Midland TX
Bill Hawker	Amoco Production Co	Denver Co
Eric Nitcher	"	"
John Gilbert	Marathon	Midland, TX
Bill Hastings	Marathon	Houston TX
MICHAEL WISKOFSKE	MARATHON	Midland, TX
Ron Folse	Marathon	Midland, TX.
Maurice Timmer	Byrum Co	SF
Paul West	Unocal	Farmington
Jerry Hoover	Conoco	Midland TX
VICTOR LYON	CONSULTANT	SANTA FE
Tom Lowry	Marathon	Midland
H L Babe Kaudisch	El Paso Natural Gas	El Paso, TX
WILLIAM FOSHAG	Pogo Producing Co	HOUSTON, TX

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NAME	REPRESENTING	LOCATION
William A. Jan JOHN KULSOFT	Campbell, Fen, Berg + Gaudin FB OPERATING CO.; KANCO-NYL 1987 LIMITED PARTN.; RC BEANST SANTA FE ENERGY OPERATING PARTNERS	Santa Fe <del>SANTA FE</del>
Evelyn Downs	OCD	Hobbs
KEVIN E. O'CONNELL	Hallwood Petroleum Inc	Denver, CO
MICHAEL B. GREGORY	HALLWOOD PETROLEUM	Denver, CO
BENNE BOWMAN	" "	" "
LOUIS JONES	MERIDIAN OIL	Farmington
GEORGE DUNN	MERIDIAN OIL	"
JAN STEVENSON	Oryx Energy Company	Oklahoma City
Charles Gray	" " "	Dallas, TX.
GREGG JACOBSEN	" "	OKLAHOMA CITY
Frank Chavez	OCD	Artes
PAUL MOLLO	GAS COMPANY	ALB
David Frye	Matador Pet	Dallas Tx
Joe Young	"	
Sarah Smith	Gas Co of NM + Sankira	Albq NM

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STATE OF NEW MEXICO

COUNTY OF SANTA FE

OIL CONSERVATION DIVISION

EXAMINER HEARING

Case: 10377

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AUGUST 29, 1991

BE IT REMEMBERED, that on the 29th day of August, 1991, the following case came on for hearing. This hearing was taken at the Oil Conservation Division conference room, State Land Office Building, Santa Fe, New Mexico commencing at 9:00 a.m.

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A P P E A R A N C E S

OIL CONSERVATION COMMISSION:

WILLIAM J. LEMAY, Chairman  
WILLIAM WEISS, Commissioner  
GARY CARLSON, Commissioner Designee

STATE OF NEW MEXICO OIL CONSERVATION DIVISION:

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P.O. Box 2088  
Santa Fe, NM 87504-2088

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Attorneys at Law  
P.O. Box 2265  
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BY: W. THOMAS KELLAHIN

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BY: WILLIAM F. CARR

AMOCO CORPORATION:

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GAS COMPANY OF NEW MEXICO:

SARAH D. SMITH  
Manager, Legal and Regulatory Affairs  
GCNM Division Office  
P.O. Box 26400  
Albuquerque, NM 87125

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I N D E X

	Page
1. Appearances	2
2. The Witnesses:	
JIM MORROW	7
RON MERRETT	28
KEVIN O'CONNELL	50
MIKE GREGORY	70
RONALD J. FOLSE	75
JOHN GILBERT	89
MARK CORLEY	95
JAMES W. HAWKINS	103
PAUL T. WEST	109
3. Reporter's Certificate	121

1                   CHAIRMAN LEMAY: On the record for the Oil  
2 Conservation Commission hearing. Commissioner Bill  
3 Weiss, myself, and for Commissioner of Public Lands  
4 Commissioner Baca. And we have Gary Carlson to my  
5 right.

6                   We shall now call case number 10377. The  
7 Oil Conservation Division calling the hearing on its  
8 own motion to accept nominations and other evidence  
9 and information to assist in the determining the  
10 October 1991 through March 1992 gas allowables for  
11 prorated pools in New Mexico.

12                   Appearances in the case 10377?

13                   MR. STOVALL: Robert G. Stovall of Santa Fe  
14 on behalf of the Division.

15                   CHAIRMAN LEMAY: Thank you, Mr. Stovall.  
16 How many witnesses do you have?

17                   MR. STOVALL: I have one witness.

18                   CHAIRMAN LEMAY: Thank you.

19                   MR. KELLAHIN: Mr. Chairman, W. Thomas  
20 Kellahin of the Santa Fe law firm of Kellahin,  
21 Kellahin & Aubrey.

22                   I have three formal presentations to make  
23 in this allowable case; one for Hallwood Energy  
24 Companies. I have two witnesses, and I want to  
25 address the Cat Claw Draw Morrow gas pool.

1                   Marathon Oil Company in association with  
2 Mr. Thomas C. Lowry an attorney with that company. I  
3 have two witnesses, and we want to address the  
4 Blinebry pool.

5                   And then finally Chevron USA, and I have  
6 one witness and we want to talk about the Eumont and  
7 the Jalmat pool.

8                   CHAIRMAN LEMAY: Thank you, Mr. Kellahin.  
9 Additional appearances in the case 10377?

10                   MS. SMITH: Yes. Sarah Smith on behalf of  
11 Gas Company Of New Mexico.

12                   CHAIRMAN LEMAY: Do you have any witnesses,  
13 Ms. Smith?

14                   MS. SMITH: Yes. Victor Lyon may be  
15 presenting some testimony today on our behalf.

16                   CHAIRMAN LEMAY: Okay. One witness then.  
17 Thank you. Additional appearances in the proration  
18 case?

19                   MR. CARR: William F. Carr with the law  
20 firm of Campbell, Carr, Berge and Sheridan of Santa  
21 Fe. I'm entering my appearance for Amoco Production  
22 Company. I'm appearing in association with Eric  
23 Nitcher, attorney for Amoco, from Denver. We have one  
24 witness.

25                   I'm also entering my appearance for Union

1 Oil Company of California. I will have one witness to  
2 present for you.

3 CHAIRMAN LEMAY: Thank you, Mr. Carr.  
4 Additional appearances? Will those witnesses --

5 MR. STOVAL: Mr. Chairman.

6 CHAIRMAN LEMAY: Mr. Stovall?

7 MR. STOVAL: Before we start, I must  
8 apologize. The private practice attorneys, since they  
9 have problems communicating with their clients, I have  
10 just been informed I have two witnesses this morning.

11 CHAIRMAN LEMAY: Two witnesses. Thank you.  
12 Additional appearances?

13 (No response.)

14 CHAIRMAN LEMAY: Will those witnesses who  
15 will give testimony please stand and raise your right  
16 hand.

17 (Witnesses sworn.)

18 CHAIRMAN LEMAY: Mr. Stovall?

19 MR. STOVALL: On the tradition of my  
20 mentors, Messrs. Carr and Kellahin, I'm tempted to  
21 give a long-winded, flowing, opening statement, but I  
22 won't.

23 I'll call my first witness, Mr. Jim Morrow.  
24 The purpose of Mr. Morrow's testimony is simply to  
25 explain the preliminary figures which the Division has

1 put out and published with respect to the proposed  
2 allowables for the prorated gas pools in New Mexico.

3 There are copies of Mr. Morrow's exhibits  
4 at the back of the room if anybody has not gotten them  
5 yet.

6 CHAIRMAN LEMAY: To make sure we've got the  
7 proper exhibits, Exhibit 1 is the Preliminary  
8 Allowable Estimate for Southeast New Mexico.

9 Exhibit Number 2 is the Preliminary  
10 Allowable Estimate for Northwest New Mexico.

11 And Exhibit Number 3 is a Comparison Of  
12 Monthly Average Pool Allowables, Sales, F1 and F2  
13 Factors. We should each have one copy of each of  
14 those items.

15 DIRECT EXAMINATION

16 BY MR. STOVALL:

17 Q Mr. Morrow, would you please state your  
18 name for the record and place of residence?

19 A Yes. My name is Jim Morrow. I live in  
20 Santa Fe.

21 Q And what is your current, albeit,  
22 short-lived occupation at this time?

23 A I work with the Oil Conservation Division  
24 as chief petroleum engineer.

25 Q And your responsibilities in that capacity

1 include making recommendations to the commission with  
2 respect to allowables and to administering the  
3 allowables system?

4 A Yes.

5 Q And are you prepared today to make  
6 recommendations for allowables to cover the six-month  
7 period beginning October 1, 1991?

8 A Yes.

9 Q Before we get into specifics, would you  
10 please give a brief explanation of New Mexico's gas  
11 proration system?

12 A New Mexico's gas proration system briefly  
13 involves the assignment of allowables to gas wells in  
14 prorated pools so that each well will have an  
15 opportunity to produce its fair share of the market  
16 demand from that prorated pool.

17 Q And why is proration necessary?

18 A In some of New Mexico's pools, the  
19 producing capacity of the wells in those pools exceeds  
20 the market demand, and some of the wells could not  
21 produce their fair share of that market without  
22 proration.

23 Q How much of New Mexico's gas production is  
24 actually prorated under the proration pools of the  
25 state?

1           A           New Mexico has approximately 16,000  
2 producing gas wells, and approximately 10,000 of these  
3 are in prorated pools. There are 14 pools in the  
4 southeast part of the state, and four in the northwest  
5 that are prorated.

6                       In April and May of 1991, the prorated  
7 pools produced approximately 29 BCF per month. And  
8 that's approximately 44 percent of the total gas well  
9 gas in production that's produced in New Mexico.

10           Q           Now, the February 28th proration hearing  
11 discussed recent changes in the gas proration rule.  
12 I'm sure most everybody here is familiar with those,  
13 but if you would just review those, briefly describe  
14 what they are, and explain how the new system is  
15 working.

16           A           All right. In December 1990, the following  
17 recommendations from a committee which had been  
18 appointed by Mr. LeMay, the OCC approved a rules  
19 change for gas proration.

20                       The biggest most noticeable change in the  
21 proration system is that -- or was that we change from  
22 a monthly allowable system to a system where we would  
23 assign allowables for six months. And also the  
24 publication of proration schedules was switched from  
25 monthly to a semiannual basis.

1           It's required considerable time and effort,  
2 especially on the part of the people that work for Jim  
3 Plewa in the proration section, Charles Engelke, Donna  
4 MacDonald, and Monica Romero to make the switch from a  
5 monthly to a semiannual system.

6           We got the schedule out for April through  
7 September. It was some time in May before we were  
8 able to publish that. And we have been publishing  
9 monthly production reports since that time. We still  
10 have some work to do on it, but I think the people who  
11 are working on it are dedicated to getting the job  
12 done and making our system the best that there is  
13 anywhere.

14           We have had some positive feedback from  
15 industry concerning the changes that have been made,  
16 so we feel like it was a good switch and we're going  
17 to get there within the system.

18           Q       Getting into the specifics of the proposed  
19 allowables for the next six-month proration period,  
20 I'd ask you now to turn to Exhibits 1 and 2. These  
21 are identified as the Revised Preliminary Allowable  
22 Estimates.

23           Would you explain how these exhibits are  
24 used to help determine the gas allowables to be  
25 established for the following period?

1           A           Yes, sir. I'd point out first of all that  
2 these exhibits differ slightly from the December  
3 tables, which were mailed out on August the 5th.  
4 Those tables were based on production numbers that we  
5 took at the end of each month from the proration  
6 schedules. These have been computer-generated, and  
7 they include any late file production or corrections  
8 which might have come in subsequent to the initial  
9 publication of what production was for particular  
10 months. So I feel that these tables are more  
11 accurate.

12                       The F1 and F2 factors that are shown here  
13 are very close to those that were shown in the  
14 mailout. In some cases they're even slightly higher  
15 than those that were published with the letter that  
16 went out on August 5th.

17                       These Preliminary Allowable Estimates for  
18 each pool, take Exhibit 1 and start with, say, the  
19 Atoka Penn, which is the first pool on the left on the  
20 southeast exhibit, the primary basis for the allowable  
21 for October through March -- October '91 through March  
22 of '92 will be the average monthly production for the  
23 same period last year, for October '90 through March  
24 of '91. And that's the -- that's the number that's  
25 shown in line number one under Atoka Penn.

1           We have a column number two for nominations  
2 which have been received and will be received for this  
3 upcoming period. Nothing is entered in there yet  
4 because we have not gotten very many nominations to  
5 this time.

6           The third column is -- the third in line is  
7 the adjustment line, which is used to adjust for  
8 overproduction in the pools or to make an adjustment  
9 to bring the allowable in line with the current  
10 producing rate, or to adjust for data, information,  
11 and recommendations which you all made here today from  
12 the industry people who will testify.

13           The adjustments then are added to the  
14 monthly pool allowable. Excuse me. They are added to  
15 line number one of monthly pool sales, average monthly  
16 pool sales, to come up with a monthly pool allowable  
17 for the upcoming period.

18           Then we subtract from that an estimate of  
19 what the marginal wells will produce. And this table  
20 is based on marginal production for each pool from  
21 April and May of 1991. That's the most recent  
22 production we have. I feel that that should reflect  
23 what those marginal wells will continue to produce and  
24 will produce for the October through March period.

25           The 6th line then is the difference between

1 the total pool allowables and the monthly marginal  
2 pool allowables. Line 5 is subtracted from line 4 to  
3 come up with an amount to assign to the nonmarginal  
4 wells in each pool.

5 And then seven shows the number of  
6 nonmarginal acreage factors pool. Essentially, that's  
7 the number of nonmarginal wells. And that's divided  
8 into the amount of allowables we want to assign to the  
9 nonmarginal wells' total to get an F1 factor which is  
10 shown in line 8. And that F1 factor is multiplied  
11 when we spread out the allowables. It's multiplied by  
12 the acreage factor for each individual gas proration  
13 unit to get that well's monthly allowable for the  
14 period.

15 On Exhibit 2, this is for the northwest,  
16 and when you get down to column number 6, which shows  
17 the monthly nonmarginal pool allowable, we have got it  
18 there in the same way as we did on Exhibit 1, which  
19 was the southwest calculation.

20 The allowable in the northwest is  
21 distributed based on two factors instead of just one.  
22 In the southeast, only acreage is used to spread the  
23 allowable among the gas proration units. But in the  
24 northwest, deliverability times the acreage factor is  
25 also used to spread a portion of the allowable among

1 the gas proration units.

2 In Basin Dakota, 60 percent of the  
3 nonmarginal allowable is provided up among the gas  
4 proration units based on the relative amount of  
5 acreage they have. So 60 percent of that allowable  
6 will be used to determine what the acreage factor will  
7 be for those wells. The other 40 percent will be  
8 divided up among the gas proration units based on  
9 acreage times that well's deliverability. So that 40  
10 percent then is divided by the number of nonmarginal  
11 acreage times deliverability factors, which is column  
12 A, to come up with the F2 factor, which is shown in  
13 column 10.

14 And then when we get ready to assign  
15 allowables, we'll use this F1 factor and the F2 factor  
16 to assign the allowable to the individual well. The  
17 F1 will be multiplied times that well's acreage  
18 factor. If it has an acreage factor of one, we'll get  
19 5.33 million per month for acreage, and then 7.44 will  
20 be multiplied times its acreage times the  
21 deliverability factor to come up with the amount of  
22 allowable that it gets because of this acreage times  
23 deliverability.

24 Let's see --

25 Q Mr. Morrow, let me ask you now, have you

1 made some sort of analysis with your current  
2 recommendations for the October to March period with  
3 previous historic production records to determine if  
4 they make sense or are reasonable?

5 A Yes. That's contained in Exhibit Number 3.  
6 This compares the preliminary allowables, the F1 and  
7 F2 factors -- where F2 factors are applicable -- for  
8 the October '91 through March '92 period to allowables  
9 and production, F1 and F2 factors for two previous  
10 years.

11 Look under each pool and you can see what  
12 happened in October '89 to March '90; the next year,  
13 October '90 to March '91; and the allowable in F1 and  
14 F2 factors, which these are preliminary allowables  
15 will propose to assign to each pool.

16 Q And based upon that analysis, these  
17 recommendations appear to be reasonable at this time.  
18 Is that correct?

19 A Yes, sir. I think they are. The  
20 Preliminary Allowable Estimates total 32.9 BCF per  
21 month, adding up everything the preliminary allowables  
22 will propose to assign in the southeast and northwest.  
23 And this compares to a total allowable of 35.8 BCF per  
24 month for the same period a year ago, and a total  
25 production of 31.8 for the year-ago period.

1           So we're proposing to assign for allowables  
2 here with the preliminary allowables than was actually  
3 produced during the year-ago period, but it is less  
4 than the allowable we assigned for that period.

5           Q       Now, have you received any nominations from  
6 transporters or purchasers with respect to the  
7 proposed allowables for the upcoming period?

8           A       We received some -- just very scattered  
9 nominations in the various pools. Actually the only  
10 pool where we received nominations which even come  
11 close to what we have proposed to assign here is in  
12 the Cat Claw Draw pool where we received nominations  
13 for a total monthly allowable of 407,000 MCF on a  
14 monthly basis. And that exceeds 161 acres we proposed  
15 to assign. In all other pools I feel that we've only  
16 got partial nominations because they are very low, but  
17 we have received some and possibly we'll receive some  
18 more here today.

19          Q       And that leads to the next question.

20                 That in fact under the prior system,  
21 nominations were the primary if not only input into  
22 the system other than production. But under the  
23 current system, the hearing today, we're inviting  
24 additional testimony which might affect the final  
25 recommendations that you would make. Is that correct?

1           A        Yes, sir. That's correct. You're right.  
2       Nominations with all the information we've got from  
3       industry using the old system, which was primarily  
4       based on production for two months prior. But as in  
5       the case of the February 28th hearing, the appearance  
6       indicate that we will receive some suggestions here  
7       today which will better set the allowables.

8           Q        And then do you have a recommendation for  
9       the commissioners for the allowables for the period  
10      October 1st through May 1991, through March 1st --  
11      31st, 1992?

12          A        Yes. These preliminary allowables, are  
13      starting to place. And they may and probably even  
14      should be adjusted based on the testimony of operators  
15      and purchasers and others who are here today  
16      testifying.

17                    After we hear that, you gentleman decide  
18      what adjustments are needed, then allowables should be  
19      assigned using these preliminary allowables as a  
20      starting place to set the allowables.

21          Q        Do you have anything further you would like  
22      to add to your testimony today?

23          A        The only thing I'd add is that when I was  
24      answering your question about are the allowables  
25      reasonable, I had just a little more to say.

1           The April and May 1991 production averages  
2 29.6 BCF per month from the prorator. Based on that,  
3 29.6 for April and May is fairly close to the 32.9  
4 that we can add up here for the prorated pools. And  
5 that would be a winter period.

6           So I think that the preliminary allowables  
7 are reasonable and adjustments can be made. And after  
8 you hear testimony we'll have allowables which are  
9 appropriate for that period. And that's all.

10           MR. STOVALL: Mr. Chairman, I would like to  
11 point out that the Burton Flat Morrow pool is  
12 contained on the Preliminary Allowable Schedule, and  
13 has been carried on the Proration Schedule for the  
14 past two years, although it has been under an order of  
15 the Division, which effectively deprorated that pool.

16           And that pool -- that order originally went  
17 through June of 1991 by the Commission Order  
18 establishing the six-month allowable for the period  
19 that ends in September. That deprorotation was  
20 continued. Whether to make that deprorotation of the  
21 Burton Flat pool permanent or not is subject to a  
22 hearing in September. So it may or may not be subject  
23 to allowable as proposed based upon the results of  
24 that September hearing; however, it is contained on  
25 the schedule as required by the Division order until

1 such time as it may be permanently removed or  
2 otherwise ordered by the Division.

3 And I have nothing further of this witness.

4 CHAIRMAN LEMAY: Thank you. We failed to  
5 qualify Mr. Morrow. He is qualified to testify, and  
6 also --

7 MR. STOVALL: I thought that was just so  
8 obvious that I --

9 CHAIRMAN LEMAY: Will you move submit  
10 Exhibits 1 through 3?

11 MR. STOVALL: I move to admit and submit  
12 Exhibits 1 through 3. Qualify Mr. Morrow. I have  
13 nothing further.

14 CHAIRMAN LEMAY: Without objection, those  
15 exhibits will be entered into the record. Questions  
16 of Mr. Morrow? Mr. Kellahin.

17 CROSS EXAMINATION

18 BY MR. KELLAHIN:

19 Q Mr. Morrow, a couple of points of  
20 clarification.

21 Am I clear in understanding that the  
22 primary objective of the proration system is to set  
23 allowables so that they accurately reflect the market  
24 demand for the total pool production from that pool?

25 A Yes, sir. I'd say that is certainly one of

1 the -- possibilities.

2 Q When we look at the spread sheet that you  
3 have submitted as Exhibit Number 1, and for an  
4 illustration, let's look at line 1 and move over to  
5 the Cat Claw Draw Morrow pool.

6 A All right.

7 Q That line is identified as average monthly  
8 pool sales?

9 A That's correct.

10 Q How does the Division determine for this  
11 spread sheet what are the pool sales on an average  
12 basis for that pool?

13 A All right. Those come from the records  
14 contained in our record-keeping system from the C-111.

15 Q Would you identify what a C-111 is?

16 A A C-111 is a monthly report filed by a  
17 transporter to show the amount of gas with what is  
18 produced from each well that he took gas from during a  
19 monthly period.

20 Q Is the Division system set up such that you  
21 can make a comparison between the C-111's and the  
22 operator's monthly producing report, the C-115's to  
23 see if they are the same for the pool?

24 A Right now you can get the reports and do it  
25 just manually. You've heard about the ONGARD system

1       which is being developed. And one of the goals of  
2       that system will be to compare the C-111's and the  
3       C-115's on a monthly basis using a computer.

4             Q       If an operator can demonstrate that actual  
5       sales in the pool have exceeded a number reported to  
6       the Division on the C-111's, then the appropriate  
7       place to adjust is in this line 1 of the spread sheet.

8             A       Yes, sir. That would be a good place, or  
9       line 3 would be another good place to do it. Either  
10       one, as long as you get it into the pool allowable.

11            Q       So what we're intending to reflect are the  
12       actual sales from that pool; regardless of how  
13       reported, we want the most accurate number we can in  
14       order to have some way to forecast what the past  
15       actual sales were from that pool.

16            A       Yes, sir. That's the goal. And,  
17       incidentally, one of the things we're thinking about  
18       after we get the ONGARD system developed is to  
19       actually use C-115 numbers instead of C-111 numbers to  
20       reflect production and use that in proration as well  
21       as on our production records, because we too feel that  
22       that probably has a chance of being more accurate than  
23       operative reports.

24            Q       If an operator in this pool since the time  
25       we established the summer allowables and prior to us

1 setting the winter proration period brings on  
2 additional deliverability or capacity in that pool  
3 either with new wells or recompletions, where does it  
4 go into the system so the additional capacity is  
5 accounted for?

6 A In line 3, Adjustments. I think that would  
7 be a good place to stick that in.

8 Q The market demand for the pool production  
9 is tabulated in what fashion, Mr. Morrow? How is it  
10 accounted for on the spread sheet?

11 A The intent was to make line 4 equal to  
12 market demands. The total allowable would be assigned  
13 to that pool. Our goal for that would be equal to the  
14 market demand.

15 Q The system as we now have it is predicated  
16 now on operators, producers, transporters coming to  
17 this semiannual meeting and demonstrating what market  
18 demand is for their pool production, is it not?

19 A Yes, sir, I think that's a good change --  
20 in the way we do proration is if we get the input from  
21 energy people before we set the allowables instead of  
22 after.

23 Q And so the preliminary allowables today are  
24 intended to be adjusted based upon the testimony today  
25 of market demand for those individual pools.

1           A       That would be my recommendation, yes, sir.

2           Q       Let me understand Cat Claw Draw. For  
3 example, again, in the docket sheet that was submitted  
4 to the industry attached to the Notice of Hearing,  
5 there is a spread sheet that is slightly different  
6 from the spread sheet we have today as Exhibit Number  
7 1.

8                   Do you happen to have one of the spread  
9 sheets from the docket, Mr. Morrow?

10          A       From that August 5th letter?

11          Q       Yes, sir.

12          A       Let me have yours. I've got mine in my  
13 briefcase.

14          Q       Again, for explanation, Mr. Morrow, tell us  
15 the kinds of things that you have amended from the  
16 ones sent out in August to the one we have as Exhibit  
17 1. Not asking each specific item, but simply take an  
18 example of what are the changes that have occurred  
19 between the two spread sheets.

20          A       Okay. We can go ahead and use Cat Claw  
21 Draw.

22          Q       Yes, sir.

23          A       Since that's one of the ones we were  
24 talking about.

25                   The August 5th letter shows production of

1 136,500 MCF. And the Exhibit 1 that the commissioners  
2 have shows 146,818, MCF. So that's 10,000 cubic feet  
3 more than was shown on the earlier one.

4 The other thing that was adjusted was the  
5 monthly marginal pools allowable. When the computer  
6 went back and got those numbers, it was able to get  
7 directions and late-filed reports that were included  
8 where we had not been able to do that earlier. So  
9 that was also about 10 million higher.

10 In line 6, the amount of allowables to be  
11 assigned to the nonmarginal wells is 68,530 MCF. And  
12 dividing that by the nonmarginal acreage factors, the  
13 F1 factors for Cat Claw Draw is -- on Exhibit 1 is  
14 34,265 compared to 29,106 in the August 5th letter.

15 Q Line 8 then would represent the monthly  
16 allowable that's available for a nonmarginal well that  
17 has a full acreage factor?

18 A Yes.

19 Q So on a daily basis that's approximately  
20 1.1 million a day?

21 A Right. 34 million a month.

22 MR. STOVALL: Subject to check.

23 BY MR. KELLAHIN:

24 Q Exhibit Number 1 is updated through  
25 approximately what date, Mr. Morrow?

1           A       Actually, the production numbers are for  
2           October '90 through March '91. So the latest data we  
3           have in the system at the time this was done, which  
4           was August 16th, any revisions of that October through  
5           March '91 production information would have been  
6           included in this.

7           Q       Okay.

8           A       And the -- as I said, the estimate of  
9           monthly marginal pool allowables was based on April  
10          and May production since June was not available yet.  
11          So those numbers too would have been updated with any  
12          late file production reports or any corrections which  
13          had been made up until August 16th.

14                   MR. KELLAHIN: Thank you, Mr. Morrow.  
15          Thank you Mr. Chairman.

16                   CHAIRMAN LEMAY: Are there additional  
17          questions of the witness?

18                                   CROSS EXAMINATION

19          BY MR. NITCHER:

20           Q       Mr. Morrow, my name is Eric Nitcher, Amoco  
21          Production Company. I have a couple of questions.

22                   Looking at your exhibits and making your  
23          recommendations as to allowables with the different  
24          pools, do you take into account the overproduction of  
25          that pool when you make a recommendation as to

1 allowable?

2 A Yes, sir. We did. On each pool that had  
3 overproduction, and overproduction is just for its  
4 comparison of nonmarginal wells and how much  
5 overproduction is there. And then the underproduction  
6 for nonmarginal wells is subtracted from that, so  
7 we're talking about pool overproduction for  
8 nonmarginal wells. But where there was  
9 overproduction, we did add in some allowable in the  
10 adjustment column to take care of that.

11 Q Likewise, do you take into account a pool's  
12 underproduction status for the nonmarginal wells?

13 A We didn't on this particular estimate. We  
14 did not do that in this case.

15 Q Why not?

16 A These were preliminary estimates, and I  
17 suppose if someone else felt that we should take that  
18 into account they would bring that into testimony  
19 today and tell us about it.

20 Q Is overproduction and underproduction  
21 within a pool a sign of pool balance?

22 A Say that again.

23 Q Is overproduction and underproduction  
24 within a pool a sign of a pool balance or nonbalance?

25 Let me rephrase the question. If a pool

1 was overproduced is it out of balance?

2 A Well, it's an indication that we didn't  
3 assign enough allowables to the nonmarginal wells, if  
4 as a group they are overproduced.

5 Q If a pool is underproduced, is it out of  
6 balance?

7 A It would be under -- nonmarginal wells will  
8 be overproduced. I would point out too in our system  
9 there is a mechanism for cancelling underproduction,  
10 which is not available for overproduction. It has to  
11 be made up either by the assignment of additional  
12 wells or by cutting back on what the wells are  
13 producing.

14 Q Is pool balance important from a proration  
15 perspective?

16 A I'd say it should be considered.

17 MR. NITCHER: Thank you. No further  
18 questions.

19 CHAIRMAN LEMAY: Additional questions?

20 (No response.)

21 CHAIRMAN LEMAY: The witness may be  
22 excused. Thank you, Mr. Morrow. Mr. Stovall, you may  
23 call your next witness.

24 MR. STOVALL: Mr. Chairman, my surprise  
25 witness this morning is Mr. Ron Merrett.

## 1 DIRECT EXAMINATION

2 BY MR. STOVALL:

3 Q For the record, would you please state your  
4 name and place of residence?5 A My name is Ron Merrett. I live in  
6 Albuquerque, New Mexico.

7 Q How are you employed?

8 A I'm employed as Director of the Office of  
9 Interstate Natural Gas Markets and I head up the Gas  
10 Marketing Bureau in the Oil Conservation Division.11 Q Would you describe just generally what  
12 those responsibilities entail; what your division or  
13 bureau does?14 A Generally speaking, the Bureau and the  
15 office of Interstate Natural Gas Markets is intended  
16 to provide assistance to the natural gas industry in  
17 the state. And we do this by regulatory interventions  
18 and on a federal level in Washington and before state  
19 commissions and other regulatory bodies.20 We also act as an informational source for  
21 the natural gas industry in the state through  
22 publication of a news letter, a series of officer  
23 elections, and we have the library available for use  
24 by the industry.

25 Q Is it fair to say that in the course of

1 carrying out your responsibilities that your bureau  
2 monitors and tracks natural gas production in the  
3 state of New Mexico and so you have a good idea of how  
4 the production trends are moving?

5 A We keep close watch on the statistical  
6 information that was referred to in Mr. Morrow's  
7 testimony. We also predict the trends in a very  
8 limited fashion. We tend to do some forecasting of  
9 what is going to happen in the industry, both in the  
10 state and nationally.

11 Q Now, is it -- would it be correct to say  
12 your understanding of the gas proration system that  
13 it's -- what it attempts to do is to predict the  
14 future based upon historical performance?

15 A Generally speaking, that's right. In this  
16 state the marketplace determines -- tends to determine  
17 the demand so that it is, I think, a reasonable  
18 approach to say that actual production is in fact  
19 reflective of demand. That is the approach that Mr.  
20 Morrow certainly has used, I believe, and his  
21 predecessors too.

22 Q In order to establish a relationship  
23 compared to what you are going to testify today and  
24 what Mr. Morrow has said, would it be a fair  
25 characterization to say that Mr. Morrow's testimony

1 deals with production at the micro level, that is down  
2 in the pool and well level, and what you're interested  
3 in is the overall trends, sort of a macro approach to  
4 analysis?

5 A That's correct. The purpose of this  
6 testimony is to put in a broader context the detailed  
7 supply/demand picture which you can see in the  
8 prorated pools. Most of the data I will show this  
9 morning is on a statewide basis and is not submitted  
10 again for prorated and nonprorated pools.

11 I may say that that data is available in  
12 our records, and the numerical data is available for  
13 all of the slides that I will show which will deal  
14 with trends rather than individual numerical data.

15 Q Now, you indicated that you have some  
16 slides which you want to show. These are in fact the  
17 exhibits which you have prepared or prepared under  
18 your supervision for purposes of this hearing as well  
19 as other purposes.

20 A That's correct.

21 Q Have we designated -- a packet of the  
22 graphs is available. Is that correct?

23 A That is available. In fact, I put a sheet  
24 in the packet. Those members of audience who may want  
25 to get a copy of the slides, if they would like to

1 sign their name on the sheet before the end of the  
2 hearing, we'll be glad to mail them.

3 Q What I'd like to do at this time is mark  
4 the entire packet of slides as Exhibit Number -- I'm  
5 going to mark it as Exhibit Number 6, and there is a  
6 reason for that -- out of sequence. And at this time,  
7 Mr. Merrett, let's go through this.

8 And if you would, identify on the overhead  
9 the various slides, what they show, and then explain  
10 the significance of them in terms of gas proration.

11 Let me first -- I won't make the same  
12 mistake again -- offer Mr. Merrett as an expert in  
13 natural gas marketing and forecasting, I guess, in  
14 this case.

15 CHAIRMAN LEMAY: His qualifications are  
16 accepted.

17 THE WITNESS: With the Chairman's  
18 permission, I'm going to move up top. I can't reach  
19 from here.

20 This first slide, which does not perhaps  
21 show too well to those in the back, and I would  
22 suggest like in church you can all come to the front.

23 This slide shows the monthly production of  
24 natural gas from 1988 through '90/1991 through June,  
25 which is the latest data we have. The left hand

1 access is a billion cubic feet, and the lower access  
2 simply shows the months.

3 BY MR. STOVALL:

4 Q Now, Mr. Merrett, just for the record, let  
5 me clarify that this first sheet is entitled "New  
6 Mexico Natural Gas Production 1988 Through 1991."

7 A That is correct.

8 This chart has many purposes. One of them  
9 is to show that production has increased year by year  
10 from 1988 through 1991. The principal purpose today  
11 is more to point out the seasonal consistency in the  
12 seasonal fluctuation.

13 As you will see, you start the year with  
14 high production in each of these years, and it goes to  
15 a lower level in the summer of June and July, and  
16 rises again in the winter. There is a certain  
17 predictable trend, month by month, in each of the  
18 years. And we have done some other work which trace  
19 these trends a little better.

20 Q Again, for the record, you put on another  
21 slide which is entitled, "New Mexico Natural Gas  
22 Productions, Monthly Projection 1/87 through 6/91."

23 A Yes. This shows the monthly production,  
24 and, again, is intended solely to illustrate the  
25 seasonal trend. You see the trend is upwards as was

1 shown on the previous chart, but here you see the  
2 seasonal pattern is shown very clearly.

3 This slide is called Production of  
4 Comparison of Eight Counties. We've taken four  
5 counties in the northwest, which are represented by  
6 the blue lines, and four counties in the southeast,  
7 which are represented by the green.

8 Q The blue line on the black and white copy  
9 is the one with the crosses on it?

10 A That's correct. And the green one is the  
11 one with the squares.

12 The purpose of this slide is simply to show  
13 that over the period January '88 through January  
14 '91 -- in fact June of '91, the production in the  
15 southeast has been on a much more even monthly basis.  
16 A lot of this gas is associated with crude oil, but  
17 there is a much more definite even trend.

18 The northwest is much more erratic with  
19 much more violent swings during winter and summer, but  
20 the trend is dramatically upwards, there is  
21 considerably more production from the northwest than  
22 from the southeast, and that is a conclusion you can  
23 draw from this slide.

24 This slide is perhaps the most significant  
25 of all for purposes of this hearing.

1           Q       Mr. Merrett, before we get started, let's  
2 look -- because I'm looking at the black and white and  
3 there are no simple associations. Can you identify  
4 the symbols?

5           A       Sure.

6                   This side is called "Trends: Northwest  
7 Production, Conventional, and Coal Seam." The top  
8 line is in purple on this slide and is a series of  
9 X's, and we have calculated a trend line which shows  
10 the trend rising fairly slowly, but it still rises.

11                   The middle set of data is represented by  
12 green diamonds with a -- and this is a conventional  
13 production in the northwest. All this is northwest  
14 production, by the way. And you see the conventional  
15 production with an orange line representing the median  
16 of those green diamonds, is a downward trend. At the  
17 bottom, we show coal seam gas, which is represented by  
18 a series of red squares and a blue rising trend line.

19                   So the conclusion you draw is that total  
20 northwest production has been rising steadily from  
21 January through June of -- January of '90 through June  
22 of '91. Conventional has been declining steadily as  
23 you would expect during that period, and the coal seam  
24 production has been rising continuously throughout the  
25 period.

1           This slide is called "New Mexico Natural  
2 Gas Production, Actual Versus Projected." I would say  
3 that we project for 1991 total production of natural  
4 gas around one trillion cubic feet, which will be the  
5 highest production for quite a few years.

6           This is referred to as the outer slide for  
7 obvious reasons. And the final part of the slide on  
8 the right, which is a series of green crosses linked  
9 with a green line is an estimate of total production  
10 towards the end of the year. As I said at the start,  
11 these data are available in numbered form for those  
12 who are interested, and we could provide them.

13           The next slide is rather difficult to see  
14 from here. For the six-month proration period, we  
15 have platted gas production based on -- and I'll try  
16 and demonstrate what this slide shows. The estimated  
17 '89/90, is production -- is in a series of blue  
18 crosses drawn by a blue line, and simply shows the  
19 trend -- shows the actual production for this period.

20           The following, the next line up is an  
21 orange line, and it shows the actual production for  
22 the same period, '90/91. I guess that includes some  
23 estimated because we didn't have all the data at the  
24 time. And the yellow line above it shows the estimate  
25 for '91/92.

1           The whole purpose of this slide is to try  
2 to show for the proration period in question just what  
3 we expect the estimated gas production to be.

4           As I said before, history tells us that the  
5 actual production is fairly well reflected on demand.

6           The final slide is just for information.  
7 It's our latest slide on estimated reserves.

8           Q       Let me point out, this is not in the black  
9 and white stapled packet.

10          A       It is in the black and white stapled packet  
11 that the commissioners have, but there wasn't enough  
12 to have one for you.

13          Q       Oh.

14                   (Laughter.)

15          MR. STOVALL:   Surprise witness and surprise  
16 exhibits.

17          MR. MERRETT:   This is New Mexico's  
18 estimated reserves -- well, estimated reserves like  
19 they are always estimated. But we just put in the  
20 latest number for 1990, which is the number that will  
21 appear in the federal government's statistics too.  
22 And it is around 20 trillion cubic feet. So you see  
23 that on this estimate, we have -- we are  
24 approximately -- have reserves to production ratio of  
25 20, since our production is estimated to be one BCF

1 this year.

2 That concludes my slides, and I'll move  
3 back down there to see if you have any questions.

4 BY MR. STOVALL:

5 Q Let me just ask you a couple of questions  
6 with respect to the usefulness of this testimony in  
7 your exhibits with respect to this proceeding.

8 It appears you have done a couple of things  
9 here. One is that you have historically mapped  
10 production and trends, again, in an effort for the  
11 purpose of this to try to predict what will happen  
12 during the next six-month period. Is that correct?

13 A That is correct. We don't pretend to have  
14 a very sophisticated forecasting unit, but I think  
15 probably we can do as well as we can with the  
16 statistics we have available.

17 Q Now, it appears the other part of some of  
18 your displays in this exhibit would indicate how past  
19 predictions have actually measured up against actual  
20 past performance.

21 A That's correct.

22 Q And what is your opinion with respect to  
23 the relative accuracy of predictions on a macroscale,  
24 if you will.

25 A Well, in spite of the turmoil that has

1 taken place in the gas industry over the last five or  
2 six years, I think it's quite surprising now how  
3 accurate the predictions have been and how parallel  
4 the seasonal trends are in every year.

5 There are, of course, effects of different  
6 weather patterns in the nation, and particularly in  
7 our principal market which is still California. But  
8 nevertheless, the seasonal trend in production seems  
9 to follow fairly closely year by year.

10 Q Based upon your analysis in the, if you  
11 will, projections that have been made by the prorated  
12 gas pool, do you believe that those proposed tentative  
13 allowables that have been submitted are reasonable?

14 A All I can comment on are the numbers I have  
15 been shown by Mr. Morrow, and to the extent that they  
16 seem to show a reduction in -- certainly in the  
17 northwest part of the state anyway, a reduction in  
18 expected production. I would think that is likely  
19 from conventional wells, which are the prorated wells.

20 Q Do you have anything further you would like  
21 to add to your testimony?

22 A That's all I have.

23 MR. STOVALL: I have nothing further.

24 I move the admission of the complete  
25 Exhibit 6, including the bargraph which I don't have

1 in mine.

2 COMMISSIONER LEMAY: Without objection, the  
3 Exhibit 6 will be admitted into the record.

4 Questions of Mr. Merrett?

5 MR. KELLAHIN: Mr. Chairman?

6 COMMISSIONER LEMAY: Mr. Kellahin.

7 CROSS EXAMINATION

8 BY MR. KELLAHIN:

9 Q Am I correct, Mr. Merrett, in understanding  
10 that you believe historical past production in  
11 prorated gas pools is a good indicator of market  
12 demand?

13 A That's correct.

14 Q That answer assumes that the allowables  
15 previously set by the Division have accurately  
16 forecasted market demand.

17 A It assumes that, and actually reflects  
18 market demand I would say.

19 Q If historical past production is the only  
20 parameter that we need to factor into the allowable  
21 schedule, then there is no reason to have adjustments  
22 as Mr. Morrow has suggested in the formula.

23 A That is not correct. As I understand the  
24 way the correction system works, it would be unwise  
25 not to make adjustments if you know that they are

1 realistically going to impact production.

2 Q Because we know historical past production  
3 is not only a reflection of market demand, but it is  
4 limited by the allowables established by the Division.

5 A I suppose so.

6 MR. KELLAHIN: No further questions.

7 CHAIRMAN LEMAY: Additional questions of  
8 the witness? Mr. Carlson?

9 CROSS EXAMINATION

10 BY COMMISSIONER CARLSON:

11 Q Ron, on your graph called "Trends: New  
12 Mexico Gas Production," the middle line is the  
13 conventional gas, right?

14 A Yeah, that's correct.

15 Q What percent of that conventional gas is  
16 prorated?

17 A I don't know. I'd have to ask Jim Morrow  
18 to address that question. I couldn't tell you.

19 Q Is it fair to assume the vast majority of  
20 it is?

21 MR. MORROW: No. We had a number a while  
22 ago. 44 percent of the gas well gas production was  
23 prorated, but that included the coal seam too.

24 COMMISSIONER CARLSON: And that's  
25 statewide, right?

1 MR. MORROW: Yes.

2 COMMISSIONER CARLSON: I'm talking about  
3 conventional gas out of the San Juan basin.

4 MR. MORROW: The production from the Blanco  
5 Mesa Verde pool, to kind of partially answer your  
6 question, is about equal or slightly less now than  
7 what is produced from the coal seam production. So it  
8 is in the northwest, the -- since the Blanco Mesa  
9 Verde is nearly as much as the coal seam gas, and then  
10 you have the Basin Dakota, which -- what did we say,  
11 about eight BCF per month, I expect. So it would be  
12 more -- conventional would be more.

13 (Cross examination of Mr. Merrett continued:)

14 BY COMMISSIONER CARLSON:

15 Q And none of the coal seam gas is currently  
16 prorated. Is that correct?

17 A That's correct, to my understanding.

18 Q In your opinion, Ron, is the reason that  
19 conventional gas production is decreasing -- let me  
20 rephrase that.

21 In your opinion, why is conventional gas  
22 production decreasing and coal seam gas production  
23 increasing in the San Juan basin?

24 A That's a very difficult question. Perhaps  
25 because the coal seam gas has only really come into

1 play in a big way in the last year and a half. And  
2 the situation in the last year and a half has been a  
3 little different than it was before that. There is  
4 obviously some kind of decline on conventional  
5 production anyway. An actual decline in production.

6 In addition to that, currently we have  
7 pipeline restrictions out of the San Juan basin which  
8 are causing the amount of total gas produced to be  
9 limited.

10 Q Wouldn't those pipeline restrictions also  
11 apply to coal seam?

12 A It's hard to say. If the coal seam gas is  
13 firmly contracted to people to earn that capacity,  
14 then the answer is no. If the capacity was -- access  
15 capacity was equal among all producers, then that  
16 might be so, but it isn't.

17 Q Would one possible factor be if coal seam  
18 gas is not prorated while conventional gas is?

19 A I couldn't answer that.

20 COMMISSIONER CARLSON: Thank you.

21 CROSS EXAMINATION

22 BY CHAIRMAN LEMAY:

23 Q Mr. Merrett, understanding the expansions  
24 that are taking place and will take place in the  
25 northwest part of the state, how would those

1       expansions out of the San Juan basin affect your  
2       projections of future production?

3           A       There should be a release in the bottleneck  
4       by the -- let's say during next spring, the spring of  
5       '91/92. Let's say all gas that the producers wish to  
6       flow could flow without restrictions through pipelines  
7       or through plants by that time. And I would expect  
8       there to be some increase, and it's very difficult to  
9       say how much, but I would expect there would be some  
10      increase in conventional production, and perhaps even  
11      coal seam production because right now there are a  
12      large number of wells which are not connected to  
13      pipelines. I hesitate to say that they are fully  
14      complete and ready to flow, but we know that there are  
15      a large number of wells which are not connected to the  
16      pipeline. Part of the reason for that may be the  
17      inaccurate pipeline capacity. So a projection usually  
18      would have to -- should allow for this impact of  
19      removing the bottleneck in the pipelines.

20          Q       Is it fair to say that the projected  
21      expansions will not affect our -- the proration period  
22      we're looking at from October through March, though,  
23      this year, or do you anticipate some effect on that  
24      proration?

25          A       It will not affect this proration period at

1 all.

2 Q One additional question.

3 Your Exhibit 6 as far as reserves show an  
4 increasing rate of reserves and a reserve production  
5 ratio. I think you said of about twenty to one.

6 Do you have any idea how that compares  
7 maybe with other states?

8 A My impression is that across the United  
9 States, the production -- reserve production ratio is  
10 less than ten. It's less than ten to one. And I  
11 personally believe that that estimate we have given  
12 is, if anything, on the low side. So our reserve  
13 production ratio is likely in excess of twenty to one.  
14 Nationally, the average I believe is around ten.

15 Q Is it extending too much the argument then  
16 that we're not getting our fair share of the market  
17 because we're producing less of our reserve than maybe  
18 other states, or is that extending it beyond the  
19 scope?

20 A That's very subjective. I think the fact  
21 is that too high a production ratio is a waste of  
22 resource. And in the companies that don't want to  
23 produce their gas, that's their prerogative. But I  
24 believe that you will -- that if your research  
25 production ratio gets too high, you're wasting

1 resource and wasting money.

2 Q By not being able to produce it?

3 A Yes.

4 CHAIRMAN LEMAY: Thank you. That's all the  
5 questions I have. Commissioner Weiss.

6 CROSS EXAMINATION

7 BY COMMISSIONER WEISS:

8 Q Who made the reserves determination?

9 A The reserves determination is made  
10 principally within our division.

11 Q With who?

12 A Within our division -- Oil Conservation  
13 Division.

14 COMMISSIONER WEISS: That's all.

15 CHAIRMAN LEMAY: Any additional questions  
16 of the witness?

17 (No response.)

18 CHAIRMAN LEMAY: You may be excused. Let's  
19 take a 15-minute break.

20 (Recess taken.)

21 CHAIRMAN LEMAY: We will resume the case,  
22 10377. Mr. Stovall?

23 MR. STOVALL: Mr. Chairman, I'd like to  
24 recall Mr. Morrow on a couple of points to make sure  
25 all the parties understand what we would like to have

1 from them in terms of testimony.

2 CHAIRMAN LEMAY: You've already been sworn  
3 in Mr. Morrow.

4 EXAMINATION CONTINUED:

5 BY MR. STOVALL

6 Q Mr. Morrow, you have provided some  
7 testimony with respect to allowables specific to 18  
8 prorated pools in New Mexico. And Mr. Merrett showed  
9 some information with respect to production trends.

10 Now, as I asked him and to make sure your  
11 understanding is clear on that as well, what he has  
12 looked at is broad-based pictures that cover regions  
13 for state-wide production trends and patterns over a  
14 period of time. Is that your understanding of his --

15 A Yes.

16 Q And what you do is you try to take more  
17 specific information and get it down to the individual  
18 prorated pool level. Is that correct?

19 A Yes, that's correct.

20 Q And in establishing or recommending  
21 allowables, both in terms of your recommendations and  
22 what the Division finally does in terms of it setting  
23 allowables, what you attempt to do is predict what you  
24 believe will be produced from a pool over a given  
25 six-month period. Is that correct?

1           A        Yes, sir. What we've done, as I have  
2 explained, is to look at what was produced for the  
3 same period the previous year, two years previous,  
4 compare those and just try to get an idea what that  
5 pool would be expected to produce as a pool. And of  
6 course we have invited comments, and some have  
7 indicated they had planned to give us information we  
8 wouldn't have by looking at history in order to get at  
9 a market demand for an individual pool rather than  
10 statewide.

11                   Of course, statewide trends give you some  
12 indication of what might happen in a pool. But I  
13 think the pool, specific pool information certainly  
14 has to be looked at.

15           Q        Okay. Once you get to the pool is you get  
16 down to the total nonmarginal allowable for the pool,  
17 and then try to allocate that amongst the wells in the  
18 pool based on the allocation formula for that  
19 particular pool. Is that correct?

20           A        Yes, sir, that's right.

21           Q        Then the purpose of that is to attempt as  
22 best as possible to allow each nonmarginal well in the  
23 pool its opportunity to produce its fair share without  
24 getting an excess share of production from the pool.  
25 Is that correct?

1           A       Yes, sir, that's right. There are some  
2 mechanisms there to protect relative rights, the  
3 acreage factor. If the well is short on acreage, it  
4 has a smaller acreage factor, it wouldn't get much,  
5 say, as one that had twice as much.

6           Q       There are some -- I think Mr. Kellahin  
7 seemed to be looking towards that it would be a  
8 division desire and intent to establish a pool  
9 allowable which would not restrict that pool from  
10 producing the gas which it could sell. Is that  
11 correct?

12          A       If the market and the capacity to produce  
13 to meet that market is there, I think the Commission  
14 has indicated from previous actions that they want to  
15 assign that allowable to the pool.

16          Q       And so while there may be individual wells  
17 within a pool that will be restricted, if in fact  
18 there is proration at all, some wells will -- by  
19 definition will be intentionally restricted. The pool  
20 should not be significantly restricted in terms of  
21 meeting that market. Is that correct?

22          A       That's true.

23          Q       Now, in order to achieve that result what  
24 you have to do is take the information you've got.  
25 The only information you've got is history up to this

1 point. Is that correct?

2 A Yes, sir.

3 Q And then if any part has information, good  
4 solid information and not just hopes for greater  
5 volumes, then we ask that they put that information  
6 in, and again you would make adjustments to the pool  
7 allowable based upon substantiated information which  
8 is submitted today. Is that correct?

9 A Yes, sir. These gentlemen make certain --  
10 whatever adjustments they feel are appropriate.

11 Q And allocate that, again, to the  
12 nonmarginal amounts of the pool after taking out the  
13 marginal and give each well its fair share, in effect?

14 A Yes, sir.

15 MR. STOVALL: I have no further questions.

16 CHAIRMAN LEMAY: Additional questions?

17 (No response.)

18 CHAIRMAN LEMAY: If not, you may be  
19 excused. Thank you Mr. Morrow. Is there anything  
20 additional you wish to present, Mr. Stovall?

21 MR. STOVALL: Unless I have any other  
22 witnesses that want to stand up, I think I'm through.

23 CHAIRMAN LEMAY: Thank you, Mr. Stovall.  
24 Absent any surprise witnesses, we will call Mr.  
25 Kellahin and he may present his witness.

1                   MR. KELLAHIN: Thank you, Mr. Chairman. At  
2 this time I'd like to present Hallwood Energy  
3 Companies' request for the Cat Claw Draw Morrow gas  
4 pool, and I would call Mr. Kevin O'Connell. I have  
5 distributed to the Commission copies of his exhibit  
6 booklet.

7                   DIRECT EXAMINATION

8 BY MR. KELLAHIN:

9                   Q       Mr. O'Connell, for the record would you  
10 please state your name and occupation?

11                  A       My name is Kevin O'Connell, and I'm a  
12 Western District Drilling and Production Supervisor  
13 for Hallwood Petroleum.

14                  Q       Are you a registered professional engineer?

15                  A       Yes, sir, in the State of Colorado.

16                  Q       Summarize for us your educational  
17 background and experience as an engineer.

18                  A       I graduated in 1980 with a BS in petroleum  
19 engineering from the University of Wyoming. I was  
20 employed shortly thereafter by Amoco Production  
21 Company, and I worked for Amoco for 10 years from June  
22 of 1980 to June of 1990 in Alaska, Oklahoma, and  
23 Colorado. And last year I joined Hallwood Energy  
24 Companies, in July of 1990, and have been with them  
25 since.

1           Q       Do your duties include managing Hallwood  
2 Energy Companies' production in the Cat Claw Draw  
3 Morrow gas pool?

4           A       Yes.

5           Q       Pursuant to those duties have you studied  
6 and made yourself familiar with the proration system  
7 of New Mexico insofar as it applies to that pool?

8           A       Yes, sir.

9           Q       And in addition have you reviewed and  
10 studied the preliminary recommendations for allowables  
11 suggested by Mr. Morrow in his notice to the industry  
12 in August?

13          A       Yes, sir.

14          Q       And have you also looked at his Exhibits 1,  
15 2, and 3 for today's hearings?

16          A       Yes, sir.

17          Q       Based upon your entire study with regards  
18 to that pool, do you have recommendations for an  
19 allowable level for this prorated gas pool?

20          A       Yes, sir, we do.

21                   MR. KELLAHIN: Mr. Chairman I tender Mr.  
22 O'Connell as a petroleum engineer.

23                   CHAIRMAN LEMAY: His qualifications are  
24 accepted.

25 BY MR. KELLAHIN:

1           Q       Let's start with the ultimate conclusion  
2 and we will go through your exhibit book, Mr.  
3 O'Connell, and discuss the individual items.

4                    What is your recommendation to the  
5 Commission concerning an appropriate allowable level  
6 to set on a monthly basis for the Cat Claw Draw Morrow  
7 gas pool for this winter proration period?

8           A       I would like to recommend a monthly pool  
9 allowable for the winter, six-month period of  
10 approximately 458,000 MCF, which is significantly  
11 higher than the level presented in the Exhibit Number  
12 1.

13           Q       As part of your study have you come to a  
14 conclusion about the market demand for pool  
15 production??

16           A       Yes.

17           Q       Does that requested level of allowables  
18 reflect accurately the level of production for the  
19 next proration?

20           A       As to our level of production? Yes, sir.

21           Q       Yes. Have you also studied the capacity of  
22 the pool to deliver that volume of gas?

23           A       Yes.

24           Q       And can it?

25           A       Yes.

1           Q       In fact the capacity of the pool exceeds  
2 that market demand. Does it not?

3           A       Yes.

4           Q       Have you inquired of other operators in the  
5 pool as to whether or not they have any objection to  
6 your proposed level of allowables for the pool?

7           A       Yes, sir. Approximately two weeks ago,  
8 shortly after we submitted our nominations to the  
9 state, we also sent a letter to the three other  
10 operators in the pool; Texaco, Hondo, and Barbara  
11 Fasken Properties requesting a letter of support. And  
12 we have received them and those are attached as the  
13 last three pages, 14, 15, and 16 to the exhibit  
14 package. We received letters of support from all  
15 three other operators, requesting that they support us  
16 in assigning the allowables based on our nominations  
17 that are submitted.

18          Q       Let's start with page 1 of Exhibit 1. I've  
19 taken your exhibit package, simply identified it as  
20 Exhibit 1, and then numbered each of the pages in your  
21 exhibit book. Let's start with page 1 and have you  
22 given us a general summary of the status of the pool.

23          A       Page 1 is just a map outlining at the Cat  
24 Claw Draw field and Hallwood's acreage. Hallwood is  
25 the major operator in the pool. We operate 15 wells;

1 13 producers, two shut-in wells. The five remaining  
2 wells are operated by the three different companies  
3 that are mentioned; Texaco, Hondo, Barbara Fasken. I  
4 might add all of their wells are currently classified  
5 as marginal wells.

6 Q How many nonmarginal versus marginal wells  
7 are in the Cat Claw Draw pool?

8 A There are currently two nonmarginal, and I  
9 believe eight marginal.

10 Q When did you become specifically interested  
11 in the allowable levels established for your pool?

12 A We began pursuing it after we started a  
13 fairly extensive recompletion program this year.  
14 We've worked on four wells within the pool and have  
15 increased our deliverability considerably through some  
16 successful work orders and recompletions.

17 Q Does the schedule that Mr. Morrow presented  
18 today, does that now reflect the added deliverability  
19 or capacity that you have added to this pool?

20 A No, sir, it doesn't.

21 Q Does your recommend allowable level include  
22 that additional capacity?

23 A Yes, sir.

24 Q Summarize for us, on page 2 you have  
25 identified a proration unit identified as the 1Y and

1 the 13.

2 A Yes, sir. This is a -- currently a  
3 nonmarginal unit that exists in the field. And I  
4 reviewed that to see how that unit has been  
5 performing.

6 Q Why is that of importance to you, and why  
7 should it be important to the Commission today?

8 A Well, basically because we have been  
9 curtailing and shutting in this unit a lot. During a  
10 15-month period, the unit produced only 44 percent of  
11 the time. And despite the restriction, the unit is  
12 still the most overproduced nonmarginal unit in the  
13 pool. And we have withheld gases from the market even  
14 when we have had the opportunity to sell it.

15 Basically my point in reviewing this unit  
16 was that this was a good example to highlight the need  
17 for raising nonmarginal unit allowables to allow units  
18 such as this one to produce or --

19 Q This unit, nonmarginal unit, is being  
20 curtailable by its allowable?

21 A Yes, sir, during the same 15-month period,  
22 the well produced only 200 days out of 455 days. The  
23 average assigned allowable was coincidentally also  
24 about 44 percent of the unit's sustained capability.

25 Q On a daily basis, what has been your

1 allowable for this nonmarginal well?

2 A 764 MCFD for the nonmarginal unit versus  
3 the unit's capability of 1616 MCFD.

4 Q Have you platted the sales from this  
5 nonmarginal unit versus its capabilities as well as  
6 the allowable assigned to that spacing unit?

7 A Yes, sir, that's exhibited on the plat,  
8 page 3.

9 Q Summarize that for us.

10 A It basically has just three curves. It  
11 shows -- the top curve is capability, which is what  
12 the two wells on the unit can produce. Then I've also  
13 platted the allowable on there, and that's represented  
14 as the lower curve. And I've also platted average  
15 sales on a monthly base into a daily rate. You can  
16 see basically the unit has been shut-in for six to  
17 seven months of 1990.

18 Q Why?

19 A Mainly for the reserve allowable and to  
20 prevent the unit from becoming too overproduced which  
21 would necessitate a shut-in in winter months.

22 Q During the summer months you're banking  
23 your allowable, accruing your underproduction, and  
24 trying to save that for the winter production period?

25 A Yes.

1           Q       You start the winter production period in  
2           October then?

3           A       Yes.

4           Q       And what's happened to sales? Sales have  
5           exceeded the allowable until you became overproduced?

6           A       Yes.

7           Q       Notwithstanding market demand, you had to  
8           shut-in your well because you hit the OP limit.

9           A       Yes, sir.

10          Q       Turn now to page 4. Identify and describe  
11          the purpose of that display.

12          A       Page 4 is just a plat of the number of  
13          days -- average days in a month that we have produced  
14          that unit, and illustrates that we produced it until  
15          approximately March or late March, April, and have had  
16          that unit shut-in until October.

17          Q       In your opinion, is that is an effective  
18          and efficient way to manage the production for this  
19          proration?

20          A       No, sir.

21          Q       Turning to page 5, you're dealing with a  
22          different proration unit. The unit 2 and unit 14  
23          wells?

24          A       Yes, sir. It is currently on the April  
25          proration schedule -- is the other nonmarginal

1 proration unit within the Cat Claw Draw pool. And I  
2 looked at this unit. And basically this unit is  
3 currently carried as a nonmarginal unit but should now  
4 be reclassified as a marginal as it meets the criteria  
5 by the OCD. It has not met it's allowable on any  
6 consecutive months, and it is also a currently  
7 underproduced unit.

8           And here we have compared the number of  
9 days this unit has produced, 89 percent of the time in  
10 that same 15-month period. Proration of this  
11 nonmarginal unit has been working adequately primarily  
12 due to two factors; one, production has been  
13 declining, and the average assigned allowable has been  
14 about 96 percent of the unit's capability. So there  
15 is a close analogy there.

16           I also wanted to make a point that this  
17 example does illustrate that if nonmarginal unit  
18 allowables were increased in the field, proration  
19 units such as this one become reclassified as marginal  
20 and allowed to continue producing essentially at the  
21 same rates they are currently at.

22           Q       And on page 6 you have made a plat of the  
23 information on sales, allowable, and capability.

24           A       Yes, sir. You can see that these three  
25 curves parallel a little more closely than the

1 previous one.

2 Q Page 7 is the days on and off for that  
3 proration?

4 A Yes, this well was curtailed just a couple  
5 months in late summer last year.

6 Q Let's turn now to the Cat Claw Draw Unit 9  
7 on page 8. What is the purpose of including this in  
8 the presentation?

9 A The purpose in including this, this  
10 proration unit is classified as a marginal unit, but  
11 will most likely be reclassified as nonmarginal due to  
12 a recompletion we did in May of '91. In essence we're  
13 recommending essentially swapping this unit for the 2  
14 and the 14, which will drop out as a -- from  
15 nonmarginal to marginal, whereas this one will go the  
16 other direction, from marginal to nonmarginal.

17 As I mentioned, this well was recompleted  
18 in May uphole from the Morrow C to four zones in the  
19 Morrow A and B. The well has produced to rates up 5.8  
20 million a day and created an absolute open flow of  
21 nearly 18 million a day, 17,658. We filed the C-104  
22 form with the state on July 30, 1991.

23 Post recompletion production on this well,  
24 which, by the way, this is a one-well proration unit,  
25 only one well exists, post recompletion production has

1       been approximately 342,000 MCF. Current production is  
2       5.1 million a day at 1950 pounds flowing tubing  
3       pressure.

4                   And then two points I wanted to illustrate  
5       here, this proration unit has demonstrated capability  
6       and gas sales that are eight times -- over eight times  
7       the current top allowable for a standard 640 gas  
8       proration unit. And this proration unit illustrates  
9       the need to raise the pool allowable to a level that  
10      will allow nonmarginal units to be produced at rights  
11      commensurate with their capability.

12                   And associated with that on the next page,  
13      page 9, I have just platted the average daily  
14      production and tubing pressure on the well since the  
15      May recompletion and the start of gas sales from the  
16      new zone.

17           Q       When you look at the status of the pool in  
18      terms of underproduced or overproduced in the  
19      proration schedule, have the operators in the pool for  
20      the nonmarginal wells utilized the allowable assigned  
21      to them in the past pattern so they are now  
22      substantially overproduced on a pool-wide basis?

23           A       Yes, sir.

24           Q       I talked with Mr. Morrow a while ago on  
25      Exhibit 1 on averaging the monthly pool sales, which

1 is line 1 of his spread sheet.

2 A Yes, sir.

3 Q Have you also gone back and tried to  
4 determine what in your opinion is an accurate volume  
5 to use for pool sales on a monthly basis?

6 A Yes, we have.

7 Q Is that shown on page 10?

8 A Yes, sir.

9 Q Summarize for us what you've done.

10 A Basically I looked at the data on the  
11 proration schedule, the recent proration schedule as a  
12 three-month interval; October, November, December 1990  
13 average production of 158,408 MCF a month. And then  
14 I've looked at some data with the help of a  
15 consultant, Victor Lyon, who has been working for us,  
16 and indicated production is about 184,000 for the last  
17 six-month winter period, October '90 through March  
18 1991.

19 And then also I looked at total monthly  
20 production in January of 1991 from the pool, which was  
21 about 194,381. And I have essentially averaged the  
22 winter six-month period and the January '91, giving  
23 more weight, of course, to the January period and  
24 saying that would be an expected average for the  
25 upcoming winter monthly sales. And it's just under

1 190,000 MCF on a monthly basis.

2 Q What is your recommendation to the  
3 Commission for the monthly sales volume number that  
4 accurately reflects the average monthly pool sales  
5 from October '90 to March '91? That should be  
6 substituted on Mr. Morrow's spread sheet for line 1?

7 A Yes, sir, we think the actual production  
8 number is a little bit higher.

9 Q What number should that be?

10 A 189,546.

11 Q Have you also gone through and estimated  
12 what you believed to be the marginal well production?

13 A Yes, sir.

14 Q If I understand the Division spread sheet  
15 correctly, if we look at row five, the Assignment of a  
16 Marginal Pool Allowable. The 92,000 for Cat Claw  
17 Draw.

18 A Yes, sir.

19 Q How does that correspond to the information  
20 you tabulated on page 11 of your exhibit? Are you  
21 attempting to address the same item?

22 A Yes, sir, I am.

23 Q Okay. What do you find?

24 A My number is significantly higher, 203,182.  
25 And this was arrived at by assuming the production

1 from the three other operators in the pool. Their  
2 total nonmarginal production -- excuse me, marginal  
3 production is about 50,300 MCF a month.

4 And then I sum up Hallwood's six marginal  
5 proration units, which is 11 wells. And that  
6 production is 152,882 anticipated for the month -- for  
7 the average monthly sales during the upcoming winter.  
8 And that number excludes all but two proration units,  
9 being the Cat Claw 1Y and 13, which we discussed, and  
10 the Cat Claw Number 9, which we recommend remaining as  
11 nonmarginal units.

12 So in essence the 152,882 from Hallwood  
13 marginal units plus the other operators' 50,300 MCF,  
14 totals 203,182 MCF for a marginal monthly total.

15 Q What number then do you recommend be put in  
16 the Division spread sheet at line 5 for this pool?

17 A We would recommend that number.

18 Q Turn now to page 12 and tell us how you  
19 have determined the allowable for the two nonmarginal  
20 proration units.

21 A Basically I went through the same exercise  
22 and the same criteria in the OCD format utilizing the  
23 numbers we have discussed.

24 Line 1 would be an average monthly pool  
25 sale of 189,546. Line 2, total nominations of 410,000

1 MCF, which we submitted to the state. Line 3 is our  
2 adjustment, and this is a significant number, 268,736,  
3 which reflects the new anticipated production from  
4 three regional completions we've done recently: Cat  
5 Claw Number 9, Cat Claw Number 16, and Cat Claw Number  
6 17.

7           They have all be completed since May then,  
8 and the Commission is just becoming aware of this  
9 information. They did not have that available to  
10 them. But those three wells have deliverability  
11 combined in the eight- to ten million a day range.

12           So taking that major adjustment there and  
13 add it to come up with my monthly pool allowable  
14 458,282 MCF. And I subtracted out the previously  
15 discussed marginal pool allowable. This gives a  
16 nonmarginal pool allowable for the winter period of  
17 255,100 MCF.

18           And then maintaining the 2.00 acreage  
19 factor for the number of nonmarginal units, we come up  
20 with a monthly acreage allocation factor of 127,550,  
21 which broken down on a daily basis is just under 4.2  
22 million a day. 4196 MCF.

23           Q       What have you done to satisfy yourself, Mr.  
24 O'Connell, that you have a market for this additional  
25 gas if the allowable is set at your anticipated market

1 demand?

2 A On the next page, page 13, our vice  
3 president of gas marketing, Mark Gregory, has secured  
4 a letter of intent from Gas Company of New Mexico to  
5 purchase volumes up to 15,000 MMBTU per day during the  
6 upcoming winter season.

7 Q I'll ask Mr. Gregory about his analysis of  
8 the market demand for the pool, but from your  
9 perspective do you see any restrictions on pipeline  
10 capacity to move this additional gas to market?

11 A No, sir. We're -- in fact we're currently  
12 moving right around 12 million a day out of our wells  
13 right now in the field with no restrictions.

14 Q If your allowable level is approved by the  
15 Commission, do you see any adverse consequence to any  
16 of the marginal wells in the pool?

17 A No, sir, because under the formula the  
18 marginal wells will be allowed to produce at their  
19 current capacity.

20 Q What other pipeline pressures in the pool  
21 are there? Are there such marginal wells which might  
22 be displaced if the allowables are increased and  
23 satisfied by the nonmarginal well?

24 A I do not believe that will happen. I think  
25 pipelines can -- all the gas in the field to my

1 knowledge can get into the pipelines without any  
2 restrictions.

3 MR. KELLAHIN: That concludes my  
4 examination of Mr. O'Connell.

5 Mr. Chairman, we would move the  
6 introduction of his Exhibit 1, and while he didn't  
7 specifically talk about it, the last pages are the  
8 written verifications from the various operators in  
9 the pool that they support his level of nominations  
10 for allowables in the Cat Claw Draw.

11 CHAIRMAN LEMAY: Thank you, Mr. Kellahin.  
12 Without objection, Exhibit 1 will be admitted into the  
13 record. Questions of the witness?

14 MR. STOVALL: I have no questions.

15 CROSS EXAMINATION

16 BY MR. CARLSON:

17 Q Mr. O'Connell, how do you explain the  
18 difference between Mr. Lyons' actual number of pool  
19 sales and Mr. Morrow's? Wouldn't they be taken from  
20 the same data?

21 A No, sir. I think that the difference is  
22 something we discussed earlier when Mr. Morrow was up  
23 here. And that difference being, some of the data  
24 comes from C-111's, and some of the data comes from  
25 C-115's. There appears to be a difference in who is

1 reporting production, be it a purchaser or operator,  
2 and how it gets into the OCD system.

3 Q Mr. Lyons' information came from the  
4 C-115's and Mr. Morrow's from the C-111's.

5 A Yes, sir, I think that's a good portion of  
6 the difference.

7 COMMISSIONER CARLSON: Thank you.

8 CROSS EXAMINATION

9 BY MR. WEISS:

10 Q Does the revenue from the gas, does it  
11 split according to the working interest ownership?

12 A Yes, sir.

13 Q For the whole unit.

14 A Yes

15 COMMISSIONER WEISS: Thank you. That's  
16 all.

17 CROSS EXAMINATION

18 BY CHAIRMAN LEMAY:

19 Q I have two questions, Mr. O'Connell. One,  
20 I guess being blunt, why didn't you bring this data  
21 before the Commission six months ago since you had the  
22 test? I don't remember you giving testimony on the  
23 Cat Claw Draw.

24 A We didn't have this data six months ago.  
25 Which data are you referring to?

1           Q       Well, specifically the -- that 15-month  
2 period of January 1990/March 1991, page 2, your Cat  
3 Claw Draw 1Y and 13. The overproduced status of that  
4 well on 3/31.

5           A       And the question is why didn't we bring  
6 this forward at the last --

7           Q       Yes.

8           A       I think, quite frankly, the last hearing,  
9 which was the first one open, we were not aware of the  
10 new format and -- that the Commission was actively  
11 seeking input from, producers on their wells. And I  
12 think from one of our discussions with Jim Morrow, I  
13 don't think we were alone. And there were a lot of  
14 people that weren't aware of the new format and the  
15 new procedure such as this.

16          Q       Are you on a docket list?

17          A       Yeah.

18                   MR. KELLAHIN: They are now, Mr. Chairman.

19                   CHAIRMAN LEMAY: Every one on our docket  
20 list gets the preliminary -- they did last time too --  
21 preliminary estimates of Mr. Morrow's work.

22                   THE WITNESS: It may have gone to one of  
23 our other addresses because Hallwood used to be in  
24 Oklahoma. We changed our name recently. And we're  
25 aware of it now.

1 BY CHAIRMAN LEMAY:

2 Q ON page 12 on your request for adjustments  
3 with this exhibit package it looks like the only hard  
4 evidence you had on well capabilities is the number 9  
5 workover at five million a day. Is it assumed 16 and  
6 17 could produce that, or is there any production  
7 history on those wells to verify their deliverability?

8 A We're just getting production -- Number 17  
9 was recompleted about 40 days ago. About a week and a  
10 half ago we submitted our C-104 to the Artesia office,  
11 and that well is producing -- has been producing now  
12 for about 25 days around a million a day. And my  
13 nomination was submitted at 900 MCF a day. And that  
14 appears to be able to deliver that.

15 The Number 16 was actually just recompleted  
16 and prorated last Friday, put on gas sales on Tuesday  
17 at 1.1 million a day. Would average 1.5 million at  
18 3,020 pounds. And the AOF and the four point test was  
19 performed Monday on it and has an AOF of 4.9 million.  
20 So we're just getting data on that. That appears to  
21 be a strong well capability easily of one and a half  
22 to two million a day based on the data we're getting.

23 Q Is it fair to say those two wells are too  
24 recent to get accurate decisions on sustainable  
25 productions over a period of time without pressure

1 drop?

2 A No, I think we've seen a enough from the  
3 bottomhole pressure work that those are sutainable  
4 because they do have original bottomhole pressure in  
5 the field, which is about 4,014 pounds. And they have  
6 strong tubing pressures and appear to be good wells  
7 that should hold up similar to some of the other  
8 wells.

9 Q But you're telling me that the production  
10 information is limited on those two wells to 25 days  
11 and one or two days on the other?

12 A Yes, sir.

13 CHAIRMAN LEMAY: Additional questions of  
14 the witness?

15 (No response.)

16 CHAIRMAN LEMAY: That's all I have. Thank  
17 you. You may be excused.

18 MR. KELLAHIN I'd call Mr. Mike Gregory.

19 DIRECT EXAMINATION

20 BY MR. KELLAHIN:

21 Q Mr. Gregory, would you state your name and  
22 occupation?

23 A My name is Mike Gregory. I'm vice  
24 president in marketing for Hallwood Petroleum.

25 Q Where do you reside, sir?

1           A       Denver, Colorado.

2           Q       Describe what it is you do for your company  
3 insofar as it applies to the Cat Claw Draw Morrow gas  
4 pool.

5           A       It is my job to secure markets for  
6 production of gas.

7           Q       And how long have you been doing that for  
8 your company?

9           A       Since November of 1984 when I became  
10 employed at Hallwood Petroleum.

11                   MR. KELLAHIN: We would tender Mr. Gregory  
12 as an expert in gas marketing.

13                   CHAIRMAN LEMAY: His qualifications are  
14 acceptable.

15 BY MR. KELLAHIN:

16           Q       Mr. Gregory, summarize for us on a  
17 pool-wide basis, where is this gas going to market?

18           A       We are going to be selling the company to  
19 Gas Company of New Mexico directly with the sales  
20 contract which we have been negotiating with recently.  
21 During periods when they don't need the gas directly  
22 for their system supply, we use them to transport the  
23 gas to off-system markets beyond the El Paso Natural  
24 Gas System. If Gas Company is not taking the gas  
25 towards its supply, we have it transported by Gas

1 Company to all off-system markets on either  
2 Transwestern's pipeline system or El Paso Natural Gas  
3 pipeline system.

4 Q That's the market for your share of the  
5 pool production?

6 A Yes.

7 Q Do you have a market demand that is in  
8 excess of the allowables that we're proposing?

9 A Yes, sir.

10 Q You can take all the gas that these wells  
11 will produce, can't you?

12 A That's correct.

13 Q What is the market situation for other  
14 operators in the pool?

15 A I imagine it is similar to ours during the  
16 six months we're talking about, which is the winter  
17 months. There is typically much more demand for  
18 natural gas than supply in this area.

19 Q Are you aware of any other operator or  
20 owner with production in the pool that has not been  
21 able to obtain a market if they wanted to?

22 A No, sir.

23 Q Are you familiar with the pipeline capacity  
24 of the gathering systems that take this gas into the  
25 gas company system?

1           A       Yes, I am.

2           Q       Do you know whether or not there are any  
3 pipeline capacity restrictions so that this additional  
4 allowable, if approved by the Division, can in fact be  
5 transported from the wells to the market?

6           A       I'm aware of no restrictions. In fact,  
7 I've been told by the purchaser that they've got more  
8 than enough demand to accommodate our supply.

9           Q       If the market demand that you're trying to  
10 meet is not satisfied with the additional allowable  
11 for the Cat Claw Draw Morrow, would you get the gas to  
12 satisfy that market?

13          A       You mean where would the gas company get  
14 its gas to satisfy its market if we don't deliver to  
15 them?

16          Q       The first question is, can you on behalf of  
17 your company satisfy their needs if you can't get it  
18 out of the Cat Claw Draw?

19          A       We could sell them gas from other sources,  
20 but --

21          Q       It would be from a different pool.

22          A       Yes.

23          Q       And conversely if you cannot make the  
24 market that the gas company has for your gas out of  
25 Cat Claw Draw, they'll have to go to alternative

1 markets or sources of supply.

2 A That's correct.

3 Q No further questions of Mr. Gregory.

4 CHAIRMAN LEMAY: Questions of the witness?

5 CROSS EXAMINATION

6 BY MR. CARLSON:

7 Q This is a prospective with the gas company?

8 A Yes, actually it's an amount to an existing  
9 contract.

10 Q You have been marketing the gas to gas  
11 company over the last whatever periods we're talking  
12 about here, a year and a half?

13 A Yes. Either as a direct sale to Gas  
14 Company or an arrangement where they transport for us  
15 to other markets.

16 MR. CARLSON: That's all.

17 CHAIRMAN LEMAY: That's all. Thank you.  
18 You may be excused. Mr. Kellahin?

19 MR. KELLAHIN: Mr. Chairman I'd like to  
20 make a presentation on behalf of Marathon for the  
21 Blinebry pool.

22 CHAIRMAN LEMAY: Can we assume your  
23 testimony on behalf of Hallwood is completed?

24 MR. KELLAHIN: Yes, sir.

25 CHAIRMAN LEMAY: And this on behalf of

1 Marathon --

2 MR. KELLAHIN: Yes, sir. Different topic.

3 CHAIRMAN LEMAY: You may proceed.

4 DIRECT EXAMINATION

5 BY MR. KELLAHIN:

6 Q Would you please state your name and  
7 occupation?

8 A My name is Ronald J. Folsie. I'm a senior  
9 reservoir engineer with Marathon in Midland.

10 Q Mr. Folsie, on prior occasions have you  
11 testified for the Division?

12 A No, I have not.

13 Q Summarize for us your educational  
14 background and your employment experience.

15 A I completed my Bachelor of Science degree  
16 from Louisiana State University in 1976. I've been  
17 working with Marathon Oil Company since 1977 in  
18 capacities of production, operations, reservoir  
19 engineer. I have also been engineering supervisor,  
20 and am currently located in the Midland.

21 Q Then do parts of your duties include the  
22 Blinbry gas pool production for your company?

23 A Yes.

24 Q Pursuant to those duties have you made  
25 yourself informed on the proration system insofar as

1 it applies to that?

2 A Yes.

3 Q Based on your study do you have  
4 recommendations to the Commission for a pool allowable  
5 on a monthly basis for market demand for that pool?

6 A Yes.

7 MR. KELLAHIN: We would tender Mr. Folsie as  
8 an expert engineer in petroleum.

9 CHAIRMAN LEMAY: His qualifications are  
10 acceptable

11 BY MR. KELLAHIN:

12 Q What is your recommendation to the  
13 Commission, Mr. Folsie?

14 A My recommendation is that the monthly pool  
15 allowable for the Blinbry, which is line 4, be  
16 increased to 694,645, MCF per month.

17 Q In arriving at that recommendation and  
18 conclusion, have you made a search and determined  
19 whether or not you have a market demand to meet that  
20 allowable, if approved?

21 A Yes, we have.

22 Q Have you also looked at the pool  
23 deliverability to determine that the wells in fact  
24 have the capacity to produce that allowable, if  
25 approved?

1           A       Yes, we have.

2           Q       Have you also determined that the pipeline  
3 gathering system has the capacity to take the initial  
4 gas?

5           A       Yes.

6           Q       In your opinion will the approval of that  
7 allowable level cause any harm to the marginal wells  
8 or to any other operator in the pool?

9           A       It will not.

10          Q       Let's turn to your exhibit booklet, Mr.  
11 Folsie. And have you first identify Exhibit Number 1.

12          A       Exhibit Number 1 is the map of the Blinebry  
13 pool, which indicates marginal and nonmarginal gas  
14 wells.

15          Q       Let's stop for a minute. How do you  
16 distinguish between the marginal and nonmarginal gas  
17 wells on this display?

18          A       The marginal gas wells are indicated by the  
19 smaller dots. The nonmarginal gas wells are the  
20 larger dots. The color coding represents the various  
21 gathering system transports.

22          Q       Have you reviewed the production from the  
23 pool and determined historically whether the  
24 nonmarginal wells in the pool have been utilizing the  
25 allowable assigned to those?

1           A       Yes, we have.

2           Q       And what did you find out? Are your  
3 nonmarginal wells overproduced?

4           A       The nonmarginal wells, yes, are  
5 overproduced currently.

6           Q       What have you done to determine and satisfy  
7 yourself, Mr. Folse, that the nonmarginal wells have  
8 the capacity to deliver the additional gas if this  
9 allowable level is approved?

10          A       Based on the recent well testing, which is  
11 indicated in Exhibit 2, we have produced Marathon  
12 nonmarginal wells at higher rates to indicate its  
13 higher deliverability over the current allowables.

14          Q       Describe for us how the tests were  
15 conducted.

16          A       The tests were conducted -- current wells,  
17 nonmarginal wells for Marathon are operated with  
18 chokes, restricting chokes. The tests of this period  
19 of time, seven days in August, were run with the  
20 chokes fully open. The wells, as indicated in Exhibit  
21 2, were then recorded daily, and for the rates  
22 averaging the three wells indicated in the table of  
23 over 1.7 million a day.

24          Q       Approximately how many nonmarginal wells  
25 are currently on the proration schedule for this pool?

1           A           There are approximately 16 nonmarginal  
2 wells.

3           Q           And how many marginal wells are approved?  
4 Do you know?

5           A           There are approximately 97 marginal wells  
6 total.

7           Q           Have you made a plat to demonstrate how the  
8 nonmarginal wells are operated by your company which  
9 are being produced in relation to their allowables in  
10 the overproduction or OP limit assigned in the  
11 schedule?

12          A           Yes.

13          Q           Is that displayed on Exhibit 3?

14          A           Yes, it is.

15          Q           Show us what you've done.

16          A           Exhibit 3, entitled "Blinebry Pool, The  
17 Nonmarginal Wells, Marathon Well," we've platted the  
18 allowables starting in January 1989 through the period  
19 of June 1991. The allowables are in red. The sales  
20 volumes are in green, and the cumulative  
21 overproduction limits are in purple.

22          Q           Okay. Let's follow the sales of the green  
23 line and compare that to the allowable as well as the  
24 OP limit, and tell us how the wells are being operated  
25 and managed in relation to the allowables.

1           A       Currently the wells are being operated  
2 monitoring the allowables. Over a period of time when  
3 the sales exceed the allowables, the well is -- rates  
4 are reduced to bring the overproduction limits closer  
5 down. Once the overproduction limits reach a fairly  
6 reduced volume, in particular toward the -- after  
7 January 1991, our sales volumes are increased over the  
8 allowables. And at the present time, the wells are  
9 currently being restricted to come within the limits  
10 set by the allowables.

11           Q       If you'll look in the center of that  
12 display in that period of March and April of '90, do  
13 you see where the sales drops to the bottom of the  
14 chart and then it goes back on up to about the 200,000  
15 level? What is going on during this period of time?

16           A       During this period of time there apparently  
17 is a sales booking correction. Apparently the March  
18 bookings for these particular wells were less than  
19 they should have been, and had been corrected in  
20 April.

21           Q       So we have to ignore the March and April  
22 displays on this plat because the date is incorrectly  
23 displayed.

24           A       That's correct.

25           Q       Ignoring that then, what is your conclusion

1 or major point about the information shown on this  
2 display?

3 A In conclusion, the Marathon nonmarginal  
4 wells are currently able of producing higher than the  
5 allowables due to market demands, but are being  
6 restricted due to the allowables -- current  
7 allowables.

8 Q If the allowable level is approved by the  
9 Commission that you have requested, where would that  
10 put us on the vertical scale for this display?

11 A Could you repeat that?

12 Q Sure. On the vertical scale you've platted  
13 various allowables and MCF per month.

14 A Correct.

15 Q All right. If the Commission accepts the  
16 additional allowable you're putting into the system,  
17 what is your monthly allowable level for your  
18 nonmarginal wells?

19 A The monthly allowable for the nonmarginal  
20 wells would total 537,500. Monthly nonmarginal pool  
21 allowables?

22 Q Let's start over. On a nonmarginal well, a  
23 single nonmarginal proration unit, if your allowable  
24 request is approved, what would that well receive on a  
25 monthly basis?

1           A       That well would receive approximately  
2       50,000 MCF.

3           Q       So if we look at the plat on Exhibit 3 and  
4       multiply the 50,000 times the amount of nonmarginal  
5       wells, what level would that put us at?

6           A       That would put us at right at 200,000.

7           Q       Have you gone on Exhibit 4 now and  
8       tabulated that same type of information not only for  
9       Marathon's wells but all the other nonmarginal wells?

10          A       Yes.

11          Q       And that's Exhibit 4?

12          A       Exhibit 4.

13          Q       Tell us what this shows.

14          A       On Exhibit 4 the similar data is platted,  
15       which would be the allowables, the sales, and the OP,  
16       overproduction status of all the wells. There are two  
17       periods of time where numbers go below zero, which  
18       apparently are caused due to nonmarginal wells being  
19       shut-in causing an underproduction status until the  
20       wells are being reclassified. The overproduction  
21       status goes above zero. The exhibit indicates though,  
22       that in total for the nonmarginal wells, the sales are  
23       fairly close to the allowables.

24          Q       When we look at the two sharp dips in the  
25       display on the OP limit in July and again in March of

1 1990, what does that reflect?

2 A That, again, reflects the situation where  
3 there are shut-in nonmarginal wells that are affecting  
4 the overproduction limit by the underproduction. And  
5 at some point in time, in particular July and March,  
6 those years, the well being reclassified to the  
7 marginal status; therefore, being taken off the  
8 nonmarginal wells.

9 Q In your opinion are the nonmarginal wells  
10 being controlled by the allowable ceilings established  
11 on the OP limit rather than market demand?

12 A That's correct, yes.

13 Q So the sales would have been higher to meet  
14 market demand except it hit the OP limit and shut-in  
15 to come into balance with the pool?

16 A That's correct.

17 Q Turn to Exhibit 5. Describe and identify  
18 that for me.

19 A Okay. Exhibit 5 is the accumulation of the  
20 Blinebry pool for all their wells.

21 Q These would be all your marginal and  
22 nonmarginal wells?

23 A That's correct. It indicates the total  
24 allowable, which is in green, and total sales, which  
25 is in red, indicating that the Marathon has typically

1 or normally tried or has attempted to meet all the  
2 allowables. And in particular, after January 1991,  
3 due to market demands, have actually exceeded the  
4 allowables.

5 Q What is your ultimate conclusion then about  
6 the preliminary estimates for allowables for this pool  
7 that you saw on Exhibit Number 1 and introduced at the  
8 hearing this morning?

9 A That they are low.

10 Q What in your opinion would be the allowable  
11 level necessary in order to establish market demands  
12 of the pool?

13 A Could you rephrase that?

14 Q Sure. What in your opinion is the  
15 appropriate monthly pool sales average to plug into  
16 the allowable system?

17 A That would be the 694,645 for the total  
18 pool allowable.

19 Q Have you made an effort to contact other  
20 operators in the Blinebry pool to determine whether or  
21 not there was any objection to increasing the  
22 allowables above the level on the preliminary  
23 recommendations established by the Division?

24 A Yes, we have.

25 Q And have you met any opposition to

1 increasing the allowables?

2 A We have. One of the operators has  
3 indicated after some discussion that he felt the  
4 allowables as proposed of approximately one million  
5 cubic feet a day was acceptable.

6 Q What operator was that?

7 A That was John Hendricks.

8 Q If the allowable level that you proposed is  
9 accepted, what would that be on a daily basis for a  
10 nonmarginal well?

11 A On a daily basis it would be 1,667 MCF per  
12 day.

13 Q So you're asking for another 667.

14 A That's correct.

15 Q Above what looks like to be an average on a  
16 daily basis of just about 1,000 MCF a day?

17 A That's correct.

18 Q Approximately what percentage of the  
19 operators in the pool did you contact or were able to  
20 contact about increasing the allowables?

21 A We had contacted or made an attempt to  
22 contact all of the nonmarginal well operators. And we  
23 have contacted 74 percent of the marginal well  
24 operators.

25 Q Have you received any objection from the

1 nonmarginal well operators?

2 A The only objection was from John Hendricks.

3 Q And he has a nonmarginal well?

4 A He has one nonmarginal well.

5 Q Have you determined whether or not the  
6 pipelines from your perspective have such capacity to  
7 handle the additional gas if this allowable level is  
8 approved?

9 A Yes, we have.

10 Q And what did you find out?

11 A We found that there was -- there were no  
12 problems with handling the additional gas.

13 Q Is there going to be an increase in line  
14 pressure that would cause more wells to be displaced  
15 from the systems?

16 A There would not be, no.

17 MR. KELLAHIN: That concludes my  
18 examination of Mr. Folse. We would move the  
19 introduction of his exhibits, Exhibits 1 through 5.

20 CHAIRMAN LEMAY: Without objection,  
21 Exhibits 1 through 5 will be admitted.

22 Questions of the witness?

23 CROSS EXAMINATION

24 BY MR. WEISS:

25 Q This pool is not unitized.

1           A       No, sir.

2                   MR. WEISS: That's all. Thank you.

3                   CHAIRMAN LEMAY: Just a little  
4 clarification.

5                                   CROSS EXAMINATION

6 BY MR. LEMAY:

7           Q       On your nonmarginal operators you say you  
8 contacted 100 percent of them with one opposed?

9           A       No. 100 percent of them with no opposed.

10          Q       Talking about the nonmarginal.

11          A       Nonmarginal.

12          Q       I thought Mr. Hendricks recommended a  
13 million a day rather than 1.6.

14          A       Well, the first conversation with him he  
15 realized that there wasn't any problem because he does  
16 have a nonmarginal well. Further conversations with  
17 him, they do have 10 marginal wells. Then he restated  
18 his comments that he felt that a million a day or  
19 30,000 per month was acceptable.

20          Q       He restated his opinion of what was  
21 acceptable?

22          A       For the F1 factors?

23          Q       Yes.

24          A       For the wells, nonmarginal wells was  
25 acceptable at 30,000 as opposed by Mr. Jim Morrow.

1           Q       Can we clarify the record? He was opposed  
2 to your recommendation and supported Mr. Morrow's  
3 recommendation then?

4           A       That's correct.

5           Q       Out of the 16 nonmarginal wells, how many  
6 operators are there of nonmarginal wells?

7           A       Out of the -- rephrase that please.

8           Q       Your testimony I think showed 16  
9 nonmarginal wells and 97 marginal wells.

10          A       That's correct.

11          Q       How many operators are there of the 16  
12 nonmarginal wells?

13          A       I believe there are eight operators.

14          Q       Eight operators. And all eight were  
15 contacted, were they?

16          A       Yes, sir.

17          Q       With only one opposed.

18          A       Right.

19          Q       Basically.

20          A       Yes, sir.

21                 CHAIRMAN LEMAY: Are there any additional  
22 questions of the witness?

23                 (No response.)

24                 CHAIRMAN LEMAY: Thank you. You may be  
25 excused. Mr. Kellahin?

1           MR. KELLAHIN: Thank you. Mr. Chairman, I  
2 would like to call at this time Mr. John Gilbert.

3                           DIRECT EXAMINATION

4 BY MR. KELLAHIN:

5           Q       Mr. Gilbert would you state your name and  
6 occupation sir?

7           A       My name is John P. Gilbert, employee of  
8 Marathon Oil Company, natural gas market.

9           Q       How long have you been employed by your  
10 company as gas marketer?

11          A       Right at exactly one year.

12          Q       Now, what is your involvement with  
13 production from Marathon's well regarding the Blinebry  
14 gas pool?

15          A       I sell the gas from the Blinebry pool on a  
16 30-day spot market.

17          Q       Give us a general summary of the market  
18 conditions for pool production on a pool-wide basis  
19 for this pool.

20          A       We have plenty of demand for gas out there.  
21 I have no problem at all placing our gas on the 30-day  
22 spot market. Often during the months I have phone  
23 calls from parties seeking more gas, which of course I  
24 placed and cannot provide.

25          Q       Where is your produced gas ultimately

1 consumed?

2 A It is moved into the El Paso main line for  
3 California market.

4 Q Is that true of the other operators of the  
5 production for the Blinebry pool?

6 A Yes.

7 Q That is, it moves through the El Paso  
8 system and moves on to the California market?

9 A That's correct.

10 Q Are you aware of any capacity problems in  
11 the systems available for pool production that would  
12 displace any of the gas volumes if the allowable  
13 levels were increased as Marathon requests?

14 A No, sir, I believe no problem exists. In  
15 fact, I talked to Northern Natural Gas, who of the  
16 10.75 net wells, the acreage factor, Northern Natural  
17 gathers 8.25 of those wells. Northern Natural was my  
18 main concern, and I talked to the field dispatcher of  
19 Northern Natural Gas in Hobbs, New Mexico, and asked  
20 him about the -- this question specifically. And he  
21 stated that actually the increased production would be  
22 welcomed to their system for their 20 pound pressure  
23 efficiencies.

24 Q Do you have Exhibit 6? Do you have a copy  
25 of that in front of you?

1           A       Yes.

2           Q       And you've prepared this display?

3           A       Yes. I prepared it from the gas proration  
4       schedule.

5           Q       When you looked at those wells gathered by  
6       Northern Natural, what did you find?

7           A       Well, there are four operators that have  
8       wells gathered by Northern Natural. As I stated  
9       moments ago, 8.25 net of the 10.75 are gathered on  
10      Northern's system.

11          Q       The El Paso system then has the Arco and  
12      Exxon?

13          A       Yes. El Paso gathering system has Arco and  
14      Exxon. Northern has Hendricks, Marathon, Mobile, and  
15      Chevron, or an 8.25 acreage factor. Warren has .25  
16      and Texaco has .25.

17          Q       These are the nonmarginal well units?

18          A       Yes.

19          Q       Do you see any opportunities for a  
20      disparity or inequity between the four gathering  
21      systems if the allowable levels are increased for the  
22      pool?

23          A       No, sir, I don't.

24          Q       Are there any pipeline pressure problems  
25      that you're aware of that would be caused if the

1 allowable levels are increased?

2 A No, sir, there isn't. As I stated moments  
3 ago, Northern maintained a 20-pound line pressure out  
4 there. And the seven some odd million a day increased  
5 production that in fact Marathon proposed were over  
6 and above what the state is recommending. And  
7 assuming the well could produce the additional MCFD, I  
8 mentioned that to Northern Natural gas, and after  
9 talking to Northern Natural Gas, the increased  
10 production would be welcome for pressure efficiency  
11 and the line pressure would not be increased, but  
12 maintained at 20 pounds.

13 Q Is there a market demand for this  
14 additional gas if the allowable was increased not only  
15 for Marathon's share of the gas, but for all others  
16 that produce that gas in this pool?

17 A Yes, sir, there is.

18 MR. KELLAHIN: That concludes my  
19 examination.

20 CHAIRMAN LEMAY: Additional questions of  
21 the witness?

22 (No response.)

23 CHAIRMAN LEMAY: I've got one, and you're  
24 not obligated to answer this if the question implies  
25 something that your company keeps confidential.

## 1 CROSS EXAMINATION

2 BY CHAIRMAN LEMAY:

3 Q Since you're involved in the spot market,  
4 do you know if you've ever chosen not to sell  
5 production because the price is too low?6 A We have maintained our gas production. We  
7 have kept our gas flow.8 Q Without any -- the price never got low  
9 enough to where you decided --

10 A There has been discussion.

11 CHAIRMAN LEMAY: That's all I have. Any  
12 other questions of the witness?

13 (No response.)

14 CHAIRMAN LEMAY: Thank you.

15 MR. STOVALL: Mr. Chairman, I'd like to be  
16 clear -- not with this witness -- but Commissioner  
17 Weiss asked a question. Were you under the  
18 understanding, Commissioner Weiss, that the Cat Claw  
19 Draw pool was unitized? I don't think that is  
20 correct. I think that was -- when the term unit was  
21 used, I believe that was proration unit. Is that  
22 correct, Mr. Kellahin?23 MR. KELLAHIN: It was a proration, spacing  
24 units as opposed to the conventional unit we're  
25 talking about that would have multiple spacing units.

1           CHAIRMAN LEMAY: At one time, correct me if  
2 I'm wrong, that field was unitized, but it was under  
3 Hannigans. Was it not?

4           MR. KELLAHIN: I think Hannigans sold to  
5 Tennaco. Tennaco eventually ended up with Hallwood.  
6 A portion of the pool was unitized, but a substantial  
7 portion was not.

8           CHAIRMAN LEMAY: So it's your recollection,  
9 Mr. Kellahin, there were no more unitized areas in  
10 that pool in terms of a unit agreement?

11          MR. KELLAHIN: I'd be happy to check, but my  
12 recollection is there is no unit in effect at this  
13 point.

14          CHAIRMAN LEMAY: If you could, Mr.  
15 Kellahin, could you submit something to us concerning  
16 the unitized status, not proration unit, but the  
17 unitized status of that pool?

18          MR. KELLAHIN: Yes, sir.

19          CHAIRMAN LEMAY: Thank you.

20          MR. KELLAHIN: I have a presentation for  
21 Chevron, if I may.

22          CHAIRMAN LEMAY: You may continue.

23          MR. KELLAHIN: Call Mr. Mark Corley.

24

25

## 1 DIRECT EXAMINATION

2 BY MR. KELLAHIN:

3 Q Mr. Corley, for the record would you please  
4 state your name for the record?5 A Mark Corley. I reside in Midland, Texas.  
6 My occupation is a gas engineer for Chevron, USA, in  
7 Midland Texas.8 Q Have you on prior occasions testified  
9 before the Division or the Commission?

10 A No, sir.

11 Q Summarize for us your educational  
12 background and your employment experience.13 A My educational background, I have a  
14 Bachelor of Science degree in petroleum engineering  
15 from the University of Texas. I have been employed  
16 with Gulf/Chevron since 1980, approximately 11 years.  
17 I've been in my current capacity job for a little over  
18 a year. Prior to that I was in gas marketing for one  
19 year. Prior to that I held various positions as  
20 reservoir engineer with Chevron and Gulf.21 Q As part of your duties have you watched the  
22 Eumont and Jalmat's production for that pool?23 A Yes, sir, it's a very key job  
24 responsibility.

25 Q Have you made yourself knowledgeable and

1 familiar with the proration system as it applies to  
2 the production from those two pools?

3 A Yes, sir.

4 MR. KELLAHIN: We would tender Mr. Corley  
5 as an expert petroleum engineering.

6 CHAIRMAN LEMAY: His qualifications are  
7 accepted.

8 BY MR. KELLAHIN:

9 Q Summarize for us what you want to  
10 demonstrate to the Commission today about principally  
11 the Eumont pool, but some of those also apply to the  
12 Jalmat.

13 A Chevron sees this hearing as an opportunity  
14 to update the commissioners and also Mr. Morrow on the  
15 positive impact of the minimum six-month allowables,  
16 600 MCF per day in the Jalmat/Eumont fields, and the  
17 benefits that Chevron has realized from those, and  
18 also the proposed adjustments from the period of  
19 October '91 through March of '92, continuing the six  
20 MCF allowable with adjustments is acceptable to  
21 Chevron.

22 Q As a result, direct result of the  
23 establishing minimal pool allowables for both of those  
24 pools, 600 a day, can you quantify the activity that  
25 has increased on behalf the Chevron's operation within

1 the Eumont gas pool?

2 A Yes, sir.

3 Q Have you reduced that to a display?

4 A Yes, sir. It's shown in Exhibit Number 1.

5 Q Identify and describe the points that you  
6 want to present on this display.

7 A Exhibit Number 1, the tabular form the  
8 Chevron activity is presented as history in 1989  
9 before the minimum allowable in place. We had Chevron  
10 operate an average of 78 wells that produced  
11 approximately 11,500 MCF per day. In 1990 we produced  
12 an average of 80 wells that produced a little over  
13 13,000 MCF per day. The key item as of October 1991,  
14 you see that we will have 98 wells on production for  
15 an estimated average of 21,225 MCF per day. This  
16 represents a change of 18 additional wells. That  
17 breakdown is eight new drills and 10 workovers which  
18 we plug back to the Eumont.

19 Also our production change is approximately  
20 8,000 MCF per day, incremental over 1990. Percent  
21 change is about 37 percent increase in production.  
22 Also footnoted is 18 a day, we average 440 MCF per day  
23 for those big wells. And also that the production can  
24 range from 150 to 1200 MCF per day for an individual  
25 well.

1           Q       How has the establishment of a minimal  
2 allowable increased this activity?

3           A       This increase in activity gives Chevron a  
4 more reliable basis to present their drilling  
5 programs. Budgeting a normal well requires about a  
6 year's time to pay out the expenditure. And with the  
7 six-month period, that gives us a better basis to  
8 forecast and present to management our claims.

9           Q       You're obtaining a pool for the drilling  
10 workover and recompletion of wells that you would not  
11 otherwise obtain approval for if you didn't have a  
12 minimum allowable.

13          A       Exactly. The activity shown would not have  
14 been done without the minimum allowables.

15          Q       Turn to Exhibit Number 2 and demonstrate to  
16 us the terms of impact of additional gas that has gone  
17 out of the Eumont gas pool as result of establishing a  
18 minimum gas allowable.

19          A       The Exhibit Number 2 is a graphic  
20 illustration of Chevron's Eumont gas production. You  
21 can see on the left it is a linear plot with MCF per  
22 day on the left, and across the bottom we have a  
23 monthly scale. Referring to 1989, prior to the  
24 minimum allowables, you can see there is an erratic  
25 and unstable production due to monthly allowable

1 assignments.

2           Moving into 1990, we did have four months  
3 of temporary 600 MCF a day allowables. You do see  
4 September of 1990 as a real short month, explaining  
5 that our major gas processor shut down the plant for  
6 approximately 16 days. So that figure of 90  
7 represents a half month's production. The overall  
8 trend for 1990 was encouraged with this four months.  
9 However, the temporary basis of the allowable did not  
10 allow any increased activity other than the two wells  
11 I showed on the previous exhibit.

12           Moving on to 1991, after the minimal  
13 allowable took effect, the first five months of the  
14 year we have put on production five of those 18 wells.  
15 You can see on a trend basis our production is on the  
16 incline. The lightly shaded bars in June of '91 is  
17 where our projected forecast for these wells starts.  
18 The projection is based on previous six months, which  
19 equates to 14,500 MCF per day. And it's also  
20 illustrated at a 10 percent decline rate per year,  
21 which is a very historical trend for our Eumont  
22 production, around 18 percent per year.

23           Moving on to October of '91, you see the  
24 slanted bars. This is the 13 wells waiting on  
25 pipeline connection coming on connection in October.

1 That's an increase of about 7200 MCF per day. Going  
2 on to December of '92, you can see by the legend  
3 that's labeled Phase II, a hatched bar on the very  
4 top. This represents the continuation of the '91  
5 program. We anticipate that these four wells will  
6 produce 500 MCF per day per well, times four, as an  
7 additional 2,000 MCF to the pool. The combination of  
8 Phase I, Phase II, plus the existing projected  
9 production shows a peak of about 23,000 MCF per day as  
10 compared to 14,500 in June of '91.

11 Q In your opinion is there a continued need  
12 for the incentive of having a minimum allowable in  
13 both of these prorated gas pools?

14 A Yes, sir, the allowable through our  
15 activity has shown that it helps us in draining our  
16 acreage and preventing waste to the reservoir.

17 Q And you'll continue to meet the minimum  
18 allowable to encourage further development?

19 A Yes, sir. The 1992 program is about four  
20 to six new wells for 1992 and numerous workovers.

21 MR. KELLAHIN: That concludes my  
22 examination, Mr. Chairman, of Mr. Corley's  
23 presentation. We would request the introduction of  
24 his exhibits.

25 CHAIRMAN LEMAY: Exhibits 1, 2, and 3 will

1 be admitted into the record. Questions of the  
2 witness?

3 (No Response.)

4 CHAIRMAN LEMAY: Thank you. You may be  
5 excused.

6 MR. STOVAL: Mr. Chairman, if I might  
7 suggest, I've talked to the parties who have  
8 additional witnesses. And Amoco and Unocal are the  
9 only two that have definite plans. And Gas Company of  
10 New Mexico is -- won't know whether they want to put  
11 anything on until after they have heard Amoco and  
12 Unocal. Both have indicated to me their presentations  
13 are shorter than any of the ones we have heard so far,  
14 and then Gas Company can then at that time make a  
15 decision whether they want to or you can decide  
16 whether you want to take a lunch break at that time.  
17 That would be my recommendation unless there are any  
18 other parties that want to make presentations.

19 CHAIRMAN LEMAY: Let's hear from Amoco and  
20 Unocal.

21 MR. STOVALL: What I meant by that  
22 statement, would you rather put them on before lunch?

23 CHAIRMAN LEMAY: Yes, sir we would. At  
24 this time Amoco will make its presentation. You may  
25 continue, Mr. Nitcher.

1                   MR. NITCHER: Mr. Chairman, I'd like to  
2 call Mr. Bill Hawkins.

3                                   DIRECT EXAMINATION

4 BY MR. NITCHER:

5           Q       Mr. Hawkins, would you please state your  
6 name and business address for the record?

7           A       James William Hawkins. I work in Denver,  
8 Colorado, for Amoco Production Company.

9           Q       And in what capacity are you employed?

10          A       I'm a senior petroleum engineering  
11 associate assigned to regulatory affairs in the states  
12 of New Mexico and Colorado.

13          Q       Have your qualifications been previously  
14 accepted by this Commission as an expert in petroleum  
15 engineering?

16          A       Yes they have.

17                   MR. NITCHER: I would offer Mr. Hawkins at  
18 this time.

19                   CHAIRMAN LEMAY: His qualifications are  
20 accepted.

21 BY MR. NITCHER:

22          Q       Mr. Hawkins, give briefly an overview of  
23 what your testimony is here today.

24          A       Today I'd like to recommend some proposed  
25 adjustments to the preliminary allowable schedule.

1 It's been presented by the AMOCD. This will be  
2 related to the pools in northwest New Mexico.

3 Q Mr. Hawkins, you have prepared two exhibits  
4 which you have handed out. Would you please briefly  
5 discuss these exhibits? And tell the Commission what  
6 the importance of the exhibits are.

7 A Look at Exhibit Number 1, please. This  
8 shows the San Juan basin pool balance for nonmarginal  
9 proration units. It's a graphical depiction for each  
10 of the four pools in northwest New Mexico. The graph  
11 shows at the bottom, the date, the numbers are -- the  
12 first two numbers would be the year, the second two  
13 numbers would be the month. So it runs approximately  
14 June '89 through April of '91. And on the vertical  
15 scale is an MCF, and this is overage production which  
16 is production related to the allowable. The numbers  
17 in parenthesis indicate overproduction or wells that  
18 produce greater than the allowable.

19 The exhibit shows that for the last two  
20 years the nonmarginal wells have been overproduced but  
21 are attempting to come back into balance. This is a  
22 little bit misleading in that for this same period of  
23 time a number of -- excuse me, the majority of wells  
24 in these pools have become marginal. And there are  
25 fewer and fewer wells that are left in the nonmarginal

1 category. And this is primarily because of the high  
2 levels that have been established in these pools in  
3 the past.

4 For example, with Amoco's wells in about  
5 mid-1989, about 30 percent of the wells that Amoco  
6 operates were in the marginal category, about 70  
7 percent in nonmarginal category. By the time it  
8 entered the graph, around the middle of 1991, less  
9 than 25 percent of Amoco's wells were left in the  
10 nonmarginal category. About 75 percent now in the  
11 marginal category. What this means is there are fewer  
12 and fewer wells actually participating in a pool  
13 balance.

14 Q Thank you, Mr. Hawkins. Could you move on  
15 to Exhibit Number 2 and explain to the Commission the  
16 importance of this exhibit?

17 A Yes. Exhibit Number 2 is a listing that  
18 shows for each of the four pools Amoco's recommended  
19 adjustments to the allowables as recommended by the  
20 AMOCD. We agree we should make these adjustments to  
21 the actual pool sales for the mirror image, or I guess  
22 what I'd call the period last year. And that is the  
23 recommendation from the AMOCD.

24 If we start down and take as a sample run  
25 through the calculations for the Basin Dakota, I think

1 you will get an idea of how this works. In the Basin  
2 Dakota the first column shows the pool balance of 389  
3 cubic feet of gas overproduced. That's for the  
4 nonmarginal wells. That should be the same number  
5 that was shown at the end of the graph on Exhibit 1.

6 If we then look at the current period that  
7 we're in, April through September, the average monthly  
8 allowable, eight and a half BCF per month. They have  
9 also published with notice of this hearing the average  
10 monthly sales for April and May, which is the third  
11 column, 614 BCF.

12 If you take the difference there and  
13 multiply that times two, is the next row, row four, it  
14 would show that we have underproduced the pool by 4.4  
15 BCF, which is going to significantly impact the pool  
16 balance. If you add that difference to the pool  
17 balance shown on the first column, or first row, and  
18 you get to row five, it shows as of June 1st then the  
19 nonmarginal pool balance would be four BCF  
20 underproduced.

21 Based on the recommendation of the industry  
22 committee, that was put together about a year ago,  
23 Amoco participated in that. Recommendations at that  
24 point were to make a 10 percent adjustment in these  
25 imbalances in order to bring the pools back into

1 balance. So we would take the number 37.996 BCF,  
2 divide it by 10 to get a 10th for the correction, and  
3 spread that over six months. So divided again by six  
4 it comes up with a 66 million cubic feet per month  
5 adjustment, downward from the previous period sales.

6 And I guess if you look at the Blanco Mesa  
7 Verde column, I'm not going to repeat all the numbers,  
8 but the pool does start out in an overproduced state.  
9 If you compare the sales to the allowable, the first  
10 two months of this period we actually overproduced the  
11 allowable there as opposed to underproduce it. That  
12 adds to more overproduction and balance. And it does  
13 indicate you need a positive adjustment for that pool.

14 The adjustments that we were to look at for  
15 Blanco Mesa Verde, Tapacito, you would come to the  
16 same conclusions, some negative correction to the  
17 allowable, and these adjustments which should start to  
18 bring the pools back into a balance.

19 Now, these adjustments that we're  
20 recommending are small enough that they are not going  
21 to represent any significant curtailment in  
22 production. But they will tend to bring the pool back  
23 into balance.

24 Q Mr. Hawkins, in a prorated system or pool,  
25 in your opinion is it important to consider over- and

1 underproduction from the pool in setting an allowable  
2 or --

3 A Yes, in my opinion it is. In fact, we  
4 talked to Mr. Morrow. I think he thinks it should be  
5 considered also. He has made some recommendations  
6 based on overproduction. In my opinion you need to  
7 make some corrections when you're in an  
8 underproduction or underproduced state as well.

9 MR. NITCHER: I have no further questions.

10 CHAIRMAN LEMAY: Thank you. Questions, Mr.  
11 Stovall?

12 MR. STOVALL: I do have one question just  
13 for clarification of Mr. Hawkins.

14 CROSS EXAMINATION

15 BY MR. STOVAL:

16 Q Do you have a copy of the Commission's  
17 recommendation that was submitted today?

18 A Yes, I do.

19 Q Exhibit Number 2 is what I'm looking at,  
20 the northwest pool.

21 A Right.

22 Q The Commission recommended adjustment of  
23 46,000. Is your recommendation of 29,000 in addition  
24 to or in substitution of?

25 A In substitution of.

1 MR. STOVALL: Okay.

2 CROSS EXAMINATION

3 BY MS. SMITH:

4 Q Mr. Hawkins, directing your attention to  
5 Exhibit 2 are the adjustments that you're recommending  
6 listed in items one through six?

7 A The adjustments we're recommending are on  
8 row six for each of the four pools. The other rows  
9 really kind of lead you through some of the arithmetic  
10 to get to the recommended adjustment.

11 Q And are you saying that in each case each  
12 of your adjustments are within the 10 percent  
13 adjustment range that was recommended by the  
14 committee?

15 A I believe we're trying to follow the same  
16 methodology that was recommended at that committee,  
17 yes.

18 Q And so the answer is yes.

19 A Yes.

20 MS. SMITH: Thank you.

21 CHAIRMAN LEMAY: Thank you, Ms. Smith.

22 Additional questions of the witness?

23 (No response.)

24 CHAIRMAN LEMAY: You may be excused.

25 MR. CARR: May it please the Commission, at

1 this time I would like to call Paul West, Union Oil  
2 Company of California.

3 DIRECT EXAMINATION

4 BY MR. CARR:

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

7 A Paul T. West.

8 Q Where do you reside?

9 A Farmington, New Mexico.

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

12 A Union Oil Company. California, as district  
13 production manager.

14 Q Have you previously testified before the  
15 Oil Conservation Commission in allowable hearings?

16 A Yes, I have.

17 Q And at that time were your qualifications  
18 as a petroleum engineer accepted and made a matter of  
19 record?

20 A Yes, they were.

21 Q And you reviewed the preliminary  
22 nominations that came out with the docket for this  
23 particular Commission hearing?

24 A Yes, I have.

25 Q Have you reviewed those?

1           A       Yes, excepting the Tapacito P.C.

2                   MR. CARR:  Are the witness's qualifications  
3 acceptable?

4                   CHAIRMAN LEMAY:  His qualifications are  
5 acceptable.

6 BY MR. CARR:

7           Q       Mr. West, what does Unocal seek by  
8 appearing in this hearing?

9           A       We seek to recommend that the OCD accept  
10 the preliminary level of allocation as they have  
11 proposed them.

12           Q       Now, the data presented in the Commission  
13 exhibits here today differ somewhat from the material  
14 contained in the preliminary nominations mailed with  
15 the packet.

16           A       Yes, they do.

17           Q       Does that make -- have any significant  
18 impact on your presentation here today?

19           A       No, they are reasonably incidental changes.

20           Q       Could you refer to what has been marked as  
21 Unocal Exhibit Number 1 and identify that please?

22           A       That is just simply a plat of the San Juan  
23 Basin, Basin Dakota pool allocation for the six-month  
24 winter stretches through the last six years, and also  
25 includes the OCD's preliminary estimate for the

1 preliminary estimate that they had.

2 Q Is this basically the same exhibit you  
3 presented in the last allowable hearing?

4 A No, it is not.

5 Q What is the purpose of this exhibit?

6 A It just indicates that the proposal,  
7 allocation for this next six-month period is a  
8 reduction from the previous years, especially '89, and  
9 '90, where the contract situations have been more  
10 consistent than we have today. And that's what the  
11 level indicates.

12 Q Let's go to Unocal Number 2. Would you  
13 identify that?

14 A This is the same kind of a plat for the  
15 Blanco Mesa Verde pool.

16 Q And, again, this just shows the recent  
17 production from that pool?

18 A This shows the allocation for those time  
19 periods and indicates the same thing. It is just a  
20 reduction over '89 and '90.

21 Q Are either or both of these pools currently  
22 in an underproduced status?

23 A Yes, they are.

24 Q Do you believe that the underproduced  
25 status should be factored into the allowables that

1 would be set for the next six-month period?

2 A I do not believe that should be a basis for  
3 that.

4 Q Why is that?

5 A The pool, the mechanism itself if we  
6 established previous production as a basis for an  
7 allocation of a pool, it will restrict the better  
8 nonmarginal wells. The status of wells in regard to  
9 their balance is important. The nature of the system  
10 is such that if you establish the same allocations  
11 previously produced, the better wells are restrained  
12 more than they would be for that previous amount, the  
13 previous allocation period, and it just spirals itself  
14 down from one six-month period to the next. Of course  
15 another real basic reason for not using that as a  
16 basis is that if you're talking about previous periods  
17 and you try to combine summer and winter, that is a  
18 whole n'other ball game because you try to save  
19 allocation.

20 Q Let's refer now to Unocal Exhibit 3. Would  
21 you identify that for the Commission?

22 A This gets down to the F1 and F2 factors and  
23 how they affect the allocation receipt on the well.  
24 The only way it is easy to demonstrate that is by  
25 looking at some example calculations. And in the

1 northwest you have to use an assumed deliverability  
2 number, in other words, to look at any examples.

3 Q What deliverability did you use here?

4 A I picked 300 MCF per day for the Basin  
5 Dakota, 400 for the Mesa Verde, 150 for Picture Cliffs  
6 as representative of a good nonmarginal well. Not  
7 necessarily the best, but a very good one.

8 Q What does this table actually show?

9 A It shows the daily allowable to be granted  
10 to a well in those pools if it had that certain  
11 deliverability, and it indicates that for the estimate  
12 '91/92 six-month stretch they would be somewhat in  
13 line with the previous two years, very slightly above  
14 '89 to '90 and significantly below '90 to '91.

15 Q Now, these recommended rates are below the  
16 capacity of wells that are being produced. Is it not?

17 A That is correct. The actual capacity of a  
18 well can also be above the deliverability number, in  
19 fact, so that these numbers would be significantly  
20 less than the well's capabilities.

21 Q And thses allowables would in fact restrict  
22 the production of the pools. Would they not?

23 A That's correct.

24 Q Why do you believe it is appropriate to  
25 adopt these numbers?

1           A           Well, I think that the Commission does have  
2 a challenging task of trying to set these allocations  
3 in the throes that we have now with the pipeline  
4 constraints, and it is kind of a hard thing to hone in  
5 on as far as what the allocations should be.

6                   I think that we do anticipate constraints  
7 through this winter period. We have already seen  
8 some. We'll probably see more significant restraints  
9 through actual work on the systems, the plant  
10 turnarounds, mainline work that we have in just the  
11 daily constraints and when the system is operating  
12 normal.

13                   But we do anticipate when they see that the  
14 lines are being expanded at this point, and through  
15 this six-month stretch it is a fact of life that we  
16 are going to be constrained. I think in that regard,  
17 that these lower levels with allocation are okay. If  
18 we were to have a surprise and not have pipeline  
19 restrictions, we would be I think unnecessarily  
20 restricted. But in all probability these are as good  
21 a numbers as we can zero in on right now. I think  
22 that they offer protection of any rights issue that  
23 might come up and as well any preventional waste  
24 issues, and I think they are probably acceptable.

25           Q           Were exhibits 1 through 3 prepared by you?

1           A       Yes they were.

2           MR. CARR:   At this time we would move the  
3 admission of Unocal Exhibits 1 through 3.

4           CHAIRMAN LEMAY:   Without objection Exhibits  
5 1 through 3 will be admitted into the report.

6           MR. CARR:   That concludes my examination.

7           CHAIRMAN LEMAY:   Additional questions of  
8 the witness?

9                               CROSS EXAMINATION

10          BY MR. NITCHER:

11           Q       Concerning restriction of production of the  
12 pool, are you saying that in a prorated pool there  
13 should never be restriction on production?

14           A       No, I'm not.

15           MR. NITCHER:   Thank you.

16           CHAIRMAN LEMAY:   I've got one, I think, Mr.  
17 West.   Maybe you could clarify it.   Six months ago,  
18 didn't Unocal conserve allowables in Basin Dakota?

19           A       Yes.

20           Q       Do you have any understanding for or any  
21 explanation for that?

22           A       A combination of things.   I think that the  
23 Basin Dakota was increased over preliminaries.   Not as  
24 much as we had requested, but it was increased.   And  
25 Mesa Verde I don't think was increased very much.   Had

1 we not run into the pipeline restraints, we still  
2 would have been underproduced on those wells because  
3 of the summer period. We would have utilized our 12  
4 times over allowables and underproduced throughout the  
5 whole stretch with the intent of overproducing for  
6 this upcoming six-month stretch. It looks like that  
7 is all for naught now because of the pipeline  
8 restraints.

9 Q Thank you.

10 A In a normal year we would have  
11 underproduced and we have done that, underproduced  
12 through the periods April through September.

13 Q Is it fair to characterize your testimony  
14 as you withheld production to build allowables for  
15 this last six-month period?

16 A That is correct. Okay. You say in this  
17 particular past six months?

18 Q Yes.

19 A It's been a combination. When we started  
20 the six-month period we were underproducing and  
21 conserving allowables. We were coming out of a winter  
22 period. Some of our good marginal wells, nonmarginal  
23 wells were overproduced so we brought those back into  
24 balance.

25 Towards the tailend of this summer, started

1 in about June, we no longer had control of managing  
2 underproduction. Pipeline constraints as well as work  
3 on a couple of the plant turnarounds in the area,  
4 turnarounds on one of the main line pressure stations,  
5 plant work in the El Paso system. And now daily  
6 restriction has forced us to underproduce a lot more  
7 than we wanted to. As result we now have a large  
8 amount of underproduction.

9 Q Well, is it your testimony then that you  
10 have had an unusual set of circumstances these last  
11 six months that did not reflect the ability of the  
12 wells in that field to produce their allowable?

13 A That is correct. And I think it became  
14 more of an issue around June, and has continued to  
15 date, and I'm sure it will continue through September.  
16 And then I think this next six-month period will be  
17 very much unpredictable.

18 Q Unpredictable in terms of pipeline  
19 restraint, pipeline maintenance?

20 A That's correct.

21 Q Is price a factor?

22 A I don't see a factor in our shop. As far  
23 as ability to market the gas, to finally find a buyer,  
24 and in our shop to sell at these low prices, that's  
25 not an issue. We would be selling over -- we would be

1 overproducing during this next six-month stretch with  
2 just those factors, but we can't get it through the  
3 pipeline.

4 Q You said that was not an issue?

5 A The marketing of it is not an issue. The  
6 low price is not an issue as far as our wanting to  
7 produce the gas. Of course we would like to have the  
8 price hike too.

9 CHAIRMAN LEMAY: Thank you. Additional  
10 questions of the witness?

11 (No response.)

12 CHAIRMAN LEMAY: If not, he may be excused.  
13 Gas Company of New Mexico?

14 MS. SMITH: We'll not be presenting any  
15 testimony this morning.

16 CHAIRMAN LEMAY: Mr. Nitcher?

17 MR. NITCHER: Mr. Chairman, I may have  
18 overlooked having Mr. Hawkins' exhibits moved into the  
19 records.

20 CHAIRMAN LEMAY: Mr. Hawkins' exhibits will  
21 be admitted into the record without objection.

22 CHAIRMAN LEMAY: Before we close, are there  
23 any statements? I'd like to at this time to recognize  
24 Mr. Stovall.

25 MR. STOVALL: Thank you, Mr. Chairman. I'd

1 like right now to express our appreciation of Mr. Jim  
2 Morrow. Dick Lyons, and many people came in here and  
3 helped design this system and make it respond to the  
4 new conditions. Then he turned around and left and we  
5 hired Mr. Morrow to come in and make Mr. Lyons' system  
6 work.

7 Jim's been with us a little over a year.  
8 He took this from scratch, implemented the system, got  
9 caught between computer binds. He had an old system  
10 that wasn't quite ready for it, a new system that  
11 wasn't quite developed. So he has made it work, I'd  
12 like to express my personal appreciation and ask the  
13 Commission to formally express its appreciation and  
14 thanks for his work, and unfortunately he's leaving us  
15 in a short time. So he won't be here doing it again.

16 CHAIRMAN LEMAY: Did you say fortunately or  
17 unfortunately?

18 MR. STOVALL: I said unfortunately.

19 (Laughter. )

20 CHAIRMAN LEMAY: I'd like to second Mr.  
21 Stovall's praise of Mr. Morrow's work, and I don't  
22 think it's inappropriate to give him a round of  
23 applause.

24 (Applause.)

25 CHAIRMAN LEMAY: Anything else in this

1 case? If not, we'll take this under advisement. We  
2 shall resume this afternoon.

3 (Hearing Concluded.)

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1 STATE OF NEW MEXICO )

2 COUNTY OF SANTA FE )

3 I, PATRICK M. MALONE, RPR-CP-CSR, and Notary  
4 Public, DO HEREBY CERTIFY that I did report in  
5 Stenographic shorthand the questions and answers set  
6 forth herein, and the foregoing is a true and correct  
7 transcription of the proceeding had upon the taking of  
8 this hearing.

9 I FURTHER CERTIFY that I am neither employed  
10 by nor related to any of the parties or attorneys in  
11 this case, and that I have no interest whatsoever in the  
12 final disposition of this case in any Court.

13 I FURTHER CERTIFY that I have retained the  
14 original copy of this deposition to seal and deliver  
15 to The Oil Conservation Division.

16  
17 WITNESS MY HAND AND SEAL  
18 this 28th day of September, 1991.

19  
20  
21 

22 Court Reporter & Notary Public  
23 Certificate No. 412

24 My Commission expires 2/1/93

25

## NEW MEXICO OIL CONSERVATION COMMISSION

## COMMISSION HEARING

SANTA FE, NEW MEXICOHearing Date NOVEMBER 14, 1991 Time: 9:00 A.M.

NAME	REPRESENTING	LOCATION
BETTY DIETER	HALLWOOD PETROLEUM	DENVER
KEVIN O'CONNELL	HALLWOOD PETROLEUM	Denver
MIKE GREGORY	HALLWOOD PETROLEUM	DENVER
William J. Sam	Campbell, San, Bug + Shindler	Santa Fe
VICTOR T. LYON	GAS CO / NM	Santa Fe
ROBERT M. ROSS	AMERADA HESS CORP. 918-599-4205 ? CASE # 10398	TULSA, OK.

NEW MEXICO OIL CONSERVATION COMMISSION

COMMISSION HEARING

SANTA FE , NEW MEXICO

Hearing Date NOVEMBER 14, 1991 Time: 9:00 A.M.

NAME	REPRESENTING	LOCATION

Dockets Nos. 34-91 and 35-91 are tentatively set for November 21, 1991 and December 5, 1991. Applications for hearing must be filed at least 23 days in advance of hearing date.

**DOCKET: EXAMINER HEARING - THURSDAY - NOVEMBER 7, 1991**  
**8:15 A.M. - OIL CONSERVATION DIVISION CONFERENCE ROOM, STATE LAND OFFICE BUILDING,**  
**SANTA FE, NEW MEXICO**

The following cases will be heard before David R. Catanach, Examiner or Michael E. Stogner, Alternate Examiner:

**CASE 10395:** (Continued from October 31, 1991, Examiner Hearing.)

Application of Hal J. Rasmussen Operating, Inc. for salt water disposal, Lea County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Jalmat Pool in the perforated interval from approximately 3260 feet to 3269 feet in its Mobil State Well No. 1 located 660 feet from the South line and 1980 feet from the East line (Unit O) of Section 16, Township 23 South, Range 36 East. Said location is approximately 13.5 miles north-northwest of Jal, New Mexico.

**CASE 10409:** Application of Stevens Operating Corporation for salt water disposal, Chaves County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the San Andres formation in the perforated interval from approximately 2766 feet to 3130 feet and in the open hole interval from approximately 3205 feet to 3300 feet in the McClellan Oil Corporation, McClellan Federal Well No. 1, located 660 feet from the South and East lines (Unit P), Section 27, Township 13 South, Range 29 East. Said location is approximately 18.3 miles east by north of Hagerman, New Mexico.

**CASE 10399:** (Continued from October 17, 1991, Examiner Hearing.)

Application of Meridian Oil, Inc. for a high angle/horizontal directional drilling pilot project, special operating rules therefor, non-standard oil proration unit, special project allowable and increase in gas-oil ratio, Sandoval County, New Mexico. Applicant, in the above-styled cause, seeks to initiate a high angle/horizontal directional drilling pilot project in the Rio Puerco-Mancos Oil Pool by commencing its San Isidro Wash Well No. 1 at a standard surface oil well location tentatively selected in the NW/4 NW/4 (Unit D) of Section 21, Township 20 North, Range 3 West, drill vertically to a depth of approximately 3,000 feet, kick-off in a southeasterly direction, build angle up to approximately 80 degrees and then drill horizontally for approximately 4,000 feet. Applicant, further seeks the adoption of special operating provisions and rules within the pilot project area including a special project allowable of up to 640 BOPD with a GOR of 1,000 to 1, and an unorthodox well location exception. Applicant further seeks the flexibility to dedicate the N/2 of said Section 21 to the well as a standard 320-acre spacing unit or, in the alternative, the approval of all of Section 21 as a 640-acre non-standard spacing unit. Applicant proposes to keep the horizontal displacement of said well's producing interval within the allowed 660 foot setback from the outer sides of the assigned spacing unit. Said unit is located approximately 12 miles west-southwest of Cuba, New Mexico.

**CASE 10391:** (Continued from October 31, 1991, Examiner Hearing.)

Application of Bird Creek Resources, Inc. for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the base of the Bone Spring formation or 8300 feet, whichever is deeper, underlying the N/2 NE/4 of Section 21, Township 23 South, Range 28 East, forming a standard 80-acre oil spacing and proration unit for any and all formations and/or pools developed on 80-acre oil spacing within said vertical extent, which presently includes only the Undesignated South Culebra Bluff-Bone Spring Pool. Said unit is to be dedicated to its Barkham Well No. 3 to be drilled at a standard oil well location in the NE/4 NE/4 (Unit A) of said Section 21. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well and a charge for risk involved in drilling said well. Said unit is located approximately 0.5 miles northeast of Loving, New Mexico.

**CASE 10410:** Application of Mewbourne Oil Company for compulsory pooling and an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the base of the Abo formation to the base of the Morrow formation underlying the following described area in Section 16, Township 18 South, Range 27 East, and in the following manner: the W/2 forming a standard 320-acre gas spacing and proration unit for any and all formations and/or pools developed on 320-acre gas spacing within said vertical extent, which presently includes but is not necessarily limited to the Undesignated Scoggin Draw-Atoka Gas Pool, Undesignated Red Lake-Atoka-Morrow Gas Pool, Scoggin Draw-Morrow Gas Pool, and Undesignated Red Lake-Pennsylvanian Gas Pool; the SW/4 forming a standard 160-acre gas spacing and proration unit for any and all formations and/or pools developed on 160-acre spacing within said vertical extent; and, the SE/4 SW/4 forming a standard 40-acre oil spacing and proration unit for any and all formations and/or pools developed on 40-acre spacing within said vertical extent. Said units are to be dedicated to a single well to be drilled at an unorthodox gas well location 990 feet from the South line and 1980 feet from the West line (Unit N) of said Section 16. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well and a charge for risk involved in drilling said well. Said area is located approximately 6 miles south of Riverside, New Mexico.

**CASE 10411:** Application of Pantera Energy Company for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests from the surface to the base of the Morrow formation underlying the following described area in Section 22, Township 18 South, Range 28 East, and in the following manner: the S/2 forming a standard 320-acre gas spacing and proration unit for any and all formations and/or pools developed on 320-acre gas spacing within said vertical extent, which presently includes but is not necessarily limited to the Undesignated Palmillo Draw-Atoka Gas Pool and Undesignated North Turkey Track-Morrow Gas Pool; the SE/4 forming a standard 160-acre gas spacing and proration unit for any and all formations and/or pools developed on 160-acre spacing within said vertical extent; the S/2 SE/4 forming an 80-acre oil spacing and proration unit for any and all formations and/or pools developed on 80-acre oil spacing within said vertical extent; which presently includes only the Travis-Upper Pennsylvanian Pool; and, the SW/4 SE/4 forming a 40-acre oil spacing and proration unit for any and all formations and/or pools developed on 40-acre spacing within said vertical extent, which presently includes but is not necessarily limited to the Undesignated Artesia Queen-Grayburg-San Andres Pool. Said units are to be dedicated to a single well to be drilled at a standard location 660 feet from the South line and 1980 feet from the East line (Unit O) of said Section 22. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well and a charge for risk involved in drilling said well. Said area is located approximately 12 miles southwest by west of Loco Hills, New Mexico.

**CASE 10386:** (Reopened and continued from October 31, 1991, Examiner Hearing.)

Application of McKay Oil Corporation for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Undesignated South Dagger Draw-Upper Pennsylvanian Associated Pool underlying the N/2 of Section 25, Township 20 South, Range 24 East, forming a standard 320-acre oil or gas spacing and proration unit for said pool. Said unit is to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well and a charge for risk involved in drilling said well. Said unit is located approximately 8 miles west-southwest of Seven Rivers, New Mexico. This matter is being reopened at this time to consider additional testimony regarding an assignment of overriding royalty interest within the subject area.

**CASE 10363:** (Reopened and continued from October 31, 1991, Examiner Hearing.)

Application of Yates Petroleum Corporation for compulsory pooling, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Undesignated South Dagger Draw-Upper Pennsylvanian Associated Pool underlying the W/2 of Section 25, Township 20 South, Range 24 East, forming a standard 320-acre gas spacing and proration unit for said pool. Said unit is to be dedicated to a well to be drilled at a standard location thereon. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well and a charge for risk involved in drilling said well. Said unit is located approximately 8 miles west-southwest of Seven Rivers, New Mexico. This matter is being reopened at this time to consider additional testimony regarding an assignment of overriding royalty interest within the subject area.

**DOCKET: COMMISSION HEARING - THURSDAY - NOVEMBER 14, 1991**

**9:00 A.M. - MORGAN HALL, STATE LAND OFFICE BUILDING,  
SANTA FE, NEW MEXICO**

**(The Land Commissioner's designee for this hearing will be Jami Bailey)**

**CASE 10398:** (Readvertised)

In the matter of the hearing called by the Oil Conservation Division on its own motion to amend Rules 403 and 1110 of the General Rules and Regulations of the New Mexico Oil Conservation Division by adopting alternate methods for measuring and reporting gas production from low capacity wells.

**CASE 10377:** (Reopened)

In the matter of the hearing called by the Oil Conservation Commission for the purpose of considering gas allowables for the prorated gas pools in New Mexico for October, 1991 through March, 1992. This case will be reopened solely to consider the application for rehearing filed by Hallwood Petroleum Inc. regarding the allowable established for the Catclaw Draw Morrow Gas Pool in Eddy County.

**CASE 10345:** (De Novo)

Application of BHP Petroleum (Americas) Inc. for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Basin-Fruitland Coal Gas Pool underlying the W/2 of Section 23, Township 29 North, Range 13 West, forming a standard 320-acre gas spacing and proration unit for said pool. Said unit is to be dedicated to its existing Gallegos Canyon Unit Well No. 390 located at a previously approved unorthodox coal gas well location 245 feet from the South line and 1530 feet from the West line (Unit N) of said Section 23. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well and a charge for risk involved in drilling said well. Said unit is located at the southeast edge of Farmington, New Mexico. Upon application of Louise Locke d/b/a Locke-Taylor Drilling Company, this case will be heard De Novo pursuant to the provisions of Rule 1220.

**CASE 10346:** (De Novo)

Application of BHP Petroleum (Americas) Inc. for compulsory pooling, San Juan County, New Mexico. Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Basin-Fruitland Coal Gas Pool underlying the E/2 of Section 23, Township 29 North, Range 13 West, forming a standard 320-acre gas spacing and proration unit for said pool. Said unit is to be dedicated to its existing Gallegos Canyon Unit Well No. 391 drilled at a standard location 975 feet from the North line and 870 feet from the East line (Unit A) of said Section 23. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof as well as actual operating costs and charges for supervision, designation of applicant as operator of the well and a charge for risk involved in drilling said well. Said unit is located at the southeast edge of Farmington, New Mexico. Upon application of Louise Locke d/b/a Locke-Taylor Drilling Company, this case will be heard De Novo pursuant to the provisions of Rule 1220.

1                   NEW MEXICO OIL CONSERVATION COMMISSION  
2                   STATE LAND OFFICE BUILDING  
3                   STATE OF NEW MEXICO  
4                   CASE NO. 10377

5  
6   IN THE MATTER OF:

7                   The hearing called by the Oil  
8                   Conservation Commission for  
9                   the purpose of considering gas  
10                  allowables for the prorated gas  
11                  pools in New Mexico for October,  
12                  1991, through March, 1992.

13   BEFORE:

14                  WILLIAM J. LeMAY, CHAIRMAN  
15                  WILLIAM WEISS, COMMISSIONER  
16                  JAMI BAILEY, COMMISSIONER

17                  State Land Office Building  
18                  Morgan Hall  
19                  Thursday, November 14, 1991

20   REPORTED BY:

21                  DEBBIE VESTAL  
22                  Certified Shorthand Reporter  
23                  for the State of New Mexico  
24  
25

**ORIGINAL**

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A P P E A R A N C E S

FOR THE NEW MEXICO OIL CONSERVATION DIVISION:

ROBERT G. STOVALL, ESQ.  
General Counsel  
State Land Office Building  
Santa Fe, New Mexico 87504

FOR THE APPLICANT:

KELLAHIN, KELLAHIN & AUBREY  
Post Office Box 2265  
Santa Fe, New Mexico 87504-2265  
BY: W. THOMAS KELLAHIN, ESQ.

## I N D E X

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Page Number

Appearances 2

## WITNESSES FOR THE APPLICANT:

## 1. KEVIN O'CONNELL

Examination by Mr. Kellahin	12
Examination by Comm. Weiss	48
Examination by Comm. Bailey	50
Examination by Chair. LeMay	52
Examination by Mr. Stovall	63
Further Ex. by Chair. LeMay	71
Further Ex. by Mr. Stovall	78
Further Ex. by Chair. LeMay	80
Certificate of Reporter	88

## E X H I B I T S

Exhibit No. 1	13
Exhibit No. 2	19
Exhibit No. 3	20
Exhibit No. 4	23
Exhibit No. 5	25
Exhibit No. 6	36
Exhibit No. 7	
Exhibit No. 8	27

1                   CHAIRMAN LeMAY: Now, we'll back up to  
2 Case 10377 and call for appearances in Case  
3 10377.

4                   MR. KELLAHIN: May it please the  
5 Commission, I'm Tom Kellahin of the Santa Fe law  
6 firm of Kellahin, Kellahin & Aubrey, appearing on  
7 behalf of Hallwood Petroleum, Inc.

8                   CHAIRMAN LeMAY: How many witnesses do  
9 you have, counselor?

10                  MR. KELLAHIN: I intend to only call  
11 Mr. Kevin O'Connell. He's our petroleum engineer  
12 that testified before the Commission at the  
13 original Commission hearing. There are also  
14 additional individuals in the hearing room that  
15 are available if you desire to ask questions.

16                  I have Mike Gregory with me today. Mr.  
17 Gregory also testified at the Commission  
18 hearing. He's a gas marketing individual for our  
19 company and originally testified on market  
20 demand.

21                  Mr. Vic Lyon is available. He is  
22 representing Gas Company of New Mexico, but I  
23 would certainly invite you to draw upon his  
24 expertise when it comes to prorationing, and  
25 perhaps he may have comments in regards to this

1 particular case.

2 In addition, I would like to introduce  
3 to you Ms. Betty Dieter. Ms. Dieter is the  
4 Western District Manager for Hallwood Petroleum.  
5 And, Ms. Dieter, would you stand up, please.

6 CHAIRMAN LeMAY: Welcome to New  
7 Mexico. Thank you.

8 MR. KELLAHIN: My primary presentation,  
9 though, is through Mr. O'Connell, and he will  
10 talk to you and describe to you the specifics of  
11 his concerns about the allowables that were set  
12 for the winter proration period.

13 CHAIRMAN LeMAY: Thank you, Mr.  
14 Kellahin.

15 Additional appearances in Case 10377?

16 MR. STOVALL: Mr. Chairman, I would  
17 enter an appearance, Robert G. Stovall, on behalf  
18 of the Division. This is kind of an unusual  
19 proceeding, so I guess I am going to recommend a  
20 procedure, the nature of the case being that of a  
21 rule-making.

22 The case involves 17 prorated gas pools  
23 in the State of New Mexico. The Division  
24 presented preliminary information through Mr. Jim  
25 Morrow, who is no longer with the Division or in

1 the state; therefore, I'm going to ask that the  
2 record from the previous Commission hearing on  
3 this matter be incorporated into this.

4 I think because it is a rehearing, I  
5 don't think there's any problem with that. I  
6 think it is part of the record.

7 CHAIRMAN LeMAY: Any objection to  
8 that?

9 MR. KELLAHIN: We concur with Mr.  
10 Stovall.

11 MR. STOVALL: I don't intend to present  
12 anything additional today. The Division would  
13 stand on the presentation by Mr. Morrow and the  
14 record made in the original hearing in this case.

15 CHAIRMAN LeMAY: Okay. Additional  
16 appearances in this case?

17 If not, you may proceed, Mr. Kellahin.

18 We need to swear in the witnesses.  
19 Just in case -- do you want to swear them all in  
20 in case they do give testimony?

21 MR. STOVALL: Because I've entered an  
22 appearance, Mr. Chairman, I would ask that you do  
23 the swearing.

24 CHAIRMAN LeMAY: Would you all stand  
25 and be sworn in case we do call you. I think

1 that's probably the easiest, even though I  
2 understand Mr. O'Connell will be chief witness.

3 (The witnesses were duly sworn.)

4 CHAIRMAN LeMAY: You may be seated.  
5 Thank you.

6 MR. KELLAHIN: May it please the  
7 Commission, let me give you some preliminary  
8 comments from my own perspective and then  
9 indicate to you our suggestions on the  
10 presentation of this particular matter to the  
11 Commission for consideration.

12 Let me tell you, first of all, what I  
13 have distributed to you. The first item on top  
14 is another copy of the application for  
15 rehearing. Attached to the application that I  
16 have prepared behind the first blue tab is a copy  
17 of the proration order that was entered by the  
18 Commission on October 3.

19 You'll find a yellow tab partway  
20 through that order. It will be on page 3. And  
21 it is that page that sets forth the specific  
22 findings that dealt with the Catclaw Draw. There  
23 are two principal findings, No. 9 and 10. We'll  
24 have Mr. O'Connell specifically discuss those,  
25 but for your reference, that is the content of

1 the Commission order.

2 In addition, I have given you another  
3 copy of the Hallwood exhibits that were presented  
4 at the Commission hearing of the allowable case,  
5 which took place back on August 29. You'll find  
6 that behind the next blue tab. There's another  
7 yellow tab marker.

8 I've selected one of Mr. O'Connell's  
9 spreadsheets in which he substitutes in his  
10 recommendation for the numbers or volumes that  
11 correspond to what Mr. Morrow used on his  
12 spreadsheet, and we'll be talking about that  
13 exhibit again to refresh your recollections.

14 And finally, the last attachment to the  
15 application for rehearing is a letter from Gas  
16 Company that demonstrates the market demand  
17 problem that's created by the allowables  
18 established by the Commission in the first  
19 order.

20 The simple matter is that the  
21 allowables established did not accurately reflect  
22 market demand for production out of the Catclaw  
23 Draw. The reduced allowables that were  
24 established by the Commission is going to cause  
25 Gas Company to take gas that otherwise would come

1 from Catclaw Draw and supply that market with gas  
2 from somewhere else.

3 The next document we provided is a copy  
4 of the pool so that you can get a perspective on  
5 the size and configuration of the pool itself.

6 While this case is extremely important  
7 to Hallwood, it does represent a compact example  
8 of prorationing in southeastern New Mexico  
9 because it's a very small pool. We only have 19  
10 wells or proration units, if you will. Of the 19  
11 proration units, only two of those are  
12 nonmarginal. I think it represents a manageable  
13 quick look at the mechanics of prorationing.

14 And Mr. O'Connell and I will discuss  
15 with you shortly some of the things that we think  
16 require adjustment in this particular pool in  
17 order that allowables may truly reflect market  
18 demand.

19 When you look at this display, Mr.  
20 O'Connell will identify for you the bigger  
21 producing wells. Of particular importance is the  
22 No. 9 Well down in Section 35. It is the well  
23 that demonstrates the best capacity to produce,  
24 as currently classified as a nonmarginal well.

25 For your information and by way of

1 comparison then of the spreadsheets, there are a  
2 series of additional documents that we've marked  
3 as exhibits. The first one is going to be marked  
4 as Exhibit No. 2 for the rehearing. And it  
5 represents the summer proration schedule for the  
6 pool. This is the April through September 1991  
7 schedule.

8           And that would be our starting point  
9 then for looking at the next display, which is  
10 Exhibit No. 3. And that represents Mr. Morrow's  
11 preliminary allowable estimates. This is the  
12 spreadsheet he brought to the last hearing in  
13 August and discussed with the Commission. We've  
14 shown that portion that looks at the Catclaw Draw  
15 Morrow. You can see the numbers that he has  
16 utilized in his spreadsheet. Again, Mr.  
17 O'Connell will comment specifically about those  
18 numbers, contrast them to his numbers and  
19 recommendations.

20           The next spreadsheet is a duplication  
21 of the spreadsheet for the allowables in the  
22 order itself. You can find, again by looking at  
23 Catclaw Draw, the adjustments that were made by  
24 the Commission order when that order was  
25 entered.

1           And then, for completeness, the next  
2 one marked is Exhibit 5 -- is actually what was  
3 printed in the allowable schedule for October  
4 through March of 1992. Again, Mr. O'Connell will  
5 comment about some of the problems that he's  
6 experiencing with that particular spreadsheet.

7           The next exhibit you'll find is a  
8 package of documents that Mr. O'Connell has  
9 prepared and which I have marked collectively as  
10 Exhibit No. 6. He and I will go through this,  
11 and he can describe orally the particular points  
12 and conclusions he wishes to make. For your use  
13 he has written or summarized in a narrative form  
14 the presentation that he will make to you  
15 orally.

16           Then, to complete the record, we have  
17 marked for introduction the Gas Company letter of  
18 October 15, which demonstrates that we do have a  
19 market demand for additional gas from the pool  
20 that the current allowables set for this winter  
21 period do not let us satisfy.

22           And then finally, I think perhaps the  
23 most useful of the exhibits, is what we have  
24 marked as Exhibit No. 8. It is Mr. O'Connell's  
25 summary in which he specifically identifies

1 exactly what he thinks is wrong with the  
2 Commission order, where he thinks the differences  
3 are. He's attempted to quantify those.

4 And he and I will spend some time on  
5 this Exhibit No. 8 so you'll have at least a  
6 clear understanding of his position concerning  
7 the areas of difference between the Commission  
8 order and what Hallwood seeks to accomplish in  
9 this rehearing.

10 We do appreciate the opportunity the  
11 Commission has given us to have another  
12 opportunity in presenting to you the Catclaw Draw  
13 questions. It is our belief that the allowables  
14 should be established based upon market demand.  
15 I think we have a market demand that is not being  
16 satisfied by the current allowables, and we  
17 desire an adjustment.

18 With those preliminary comments, if I  
19 may, please, I would introduce Mr. O'Connell at  
20 this time.

#### 21 EXAMINATION

22 BY MR. KELLAHIN:

23 Q. For the record, Mr. O'Connell, would  
24 you, please, state your name and occupation.

25 A. My name is Kevin O'Connell. I'm the

1 Western District Drilling and Production  
2 Supervisor for Hallwood Petroleum.

3 Q. Did you testify in that capacity on  
4 behalf of your company at the Commission hearing  
5 in August concerning allowables for the Catclaw  
6 Draw Morrow Gas Pool?

7 A. Yes, sir.

8 Q. Were your qualifications as an expert  
9 witness with regards to prorating matters for  
10 this pool accepted at that time?

11 A. Yes, sir.

12 Q. Subsequent to your previous testimony,  
13 have you continued to study the Catclaw Draw  
14 production and to look at the allowables assigned  
15 by the Commission for that pool?

16 A. Yes, sir.

17 MR. KELLAHIN: We tender Mr. O'Connell  
18 as an expert petroleum engineer.

19 CHAIRMAN LeMAY: His qualifications are  
20 acceptable.

21 Q. Mr. O'Connell, let me draw your  
22 attention to Exhibit No. 1, which is the plat of  
23 the pool. And to give us some background on what  
24 has happened in the pool, let's start off and  
25 have you identify what are the current

1 nonmarginal wells in that pool.

2 A. The current nonmarginal units, there's  
3 two of them that technically exist right now, are  
4 the No. 9, which consists of Section 35, and then  
5 just north of it, the Catclaw Draw 13, and  
6 Catclaw Draw No. 1Y in Section 26.

7 Q. When we're looking at the boundary of  
8 the pool, how is that identified?

9 A. It's the hashed -- no. The field  
10 boundary is the solid, I believe it's a  
11 brown-colored line, that outlines the pool. The  
12 hashed line is Hallwood's acreage position within  
13 the pool.

14 Q. I believe Commissioner Weiss asked at  
15 the prior Commission hearing what was the  
16 consolidation of the acreage in terms of  
17 potential units in this area. Would you describe  
18 that ownership arrangement for us briefly?

19 A. In the unit?

20 Q. Yes, sir.

21 A. The Catclaw Draw unit that we have,  
22 it's a unitized royalty interest. All royalty  
23 interests are common within the unit.

24 Q. And the unit is identified with the  
25 hashed line?

1           A.       Yes, with one exception. Wells No. 16  
2 and 17 to the far north are not in the unit.  
3 They're in the Catclaw Draw field, but they're  
4 not -- their royalty interest is not unitized.

5           Q.       How do the working interests share in  
6 production from the pool?

7           A.       They do and can vary some between the  
8 wells, but they're -- the majority of the wells  
9 are quite similar, within two, three, four  
10 percentage points difference. Basically they  
11 have the same owners throughout the entire field  
12 with just slight variations in working interest  
13 ownership.

14          Q.       In examining the deliverability for the  
15 pool, can you summarize for us what in your  
16 opinion is the total pool deliverability of the  
17 Catclaw Draw Morrow Pool?

18          A.       Monthly basis?

19          Q.       Yes, sir.

20          A.       Well, it's around 400- to 425,000 Mcf  
21 per month.

22          Q.       Let me take some of the exhibits out of  
23 order and direct your attention to Exhibit No. 8,  
24 which is your notations on the pool.

25          A.       Yes, sir.

1           Q.       And the first question you've asked  
2 yourself is what is the total pool of the field  
3 deliverability? Describe for us how you went  
4 about coming to that conclusion.

5           A.       Well, basically, it's -- you know,  
6 under the current proration system, marginal  
7 wells are allowed to produce at capacity, in  
8 other words, unrestricted. So, therefore, the  
9 total pool delivery is simply the sum of the  
10 marginal wells' production, plus the sum of the  
11 nonmarginal units' production.

12          Q.       All right. When you look at the  
13 exhibit and look at total marginal production,  
14 where do those numbers come from?

15          A.       Those are numbers that we project, the  
16 marginal well productional fee for the pool over  
17 the next six-month -- or the current six-month  
18 period we're in. And that will be around 203,000  
19 to roughly 226,000 Mcf per month.

20          Q.       What do you look at to get that  
21 information?

22          A.       Just the sum of all the marginal wells'  
23 production.

24          Q.       In addition to that, then -- well, why  
25 would that represent -- why would the marginal

1 well production represent the deliverability of  
2 those wells?

3 A. Because they're allowed to produce at  
4 total capacity.

5 Q. When you look at the -- I guess there's  
6 17 of the marginal wells?

7 A. Yes.

8 Q. When you --

9 A. There are 16, I believe.

10 Q. Sixteen. There are two currently  
11 classified nonmarginal units?

12 A. Yes.

13 Q. Describe for us how you've estimated  
14 the deliverability of those proration units for  
15 this winter proration period.

16 A. Well, we've just looked at the -- what  
17 those wells could deliver, reasonable capacity of  
18 the wells. And the 1Y and the 13, they can  
19 deliver about 1,400,000 a day, which is about  
20 42,560 a month. And the Catclaw Draw No. 9, it  
21 can sustain easily about 5,000,000 day, which on  
22 a monthly basis is 152,000. So the sum of those  
23 numbers, coupled with the marginal production, is  
24 the range I've given of just under 400,000 to  
25 421,000 Mcf.

1           Q.       When you look at the 1Y Well and the 13  
2 Well in Section 26 and then the No. 9 Well in 35,  
3 do you see any opportunity for the impact on the  
4 correlative rights of any of the owners of the  
5 offsetting sections if additional allowable is  
6 assigned to those nonmarginal wells?

7           A.       No, because the Section 26 is  
8 developed, fully developed, with two wells in  
9 it. And that's all you can have in that section,  
10 or that's the maximum. Section 35 only has one  
11 well. There is a possibility for another well in  
12 the extreme south. But given the information we  
13 have, that would be risky to drill another well  
14 there right now because it would strictly have to  
15 be on the merits of increased gas recovery or  
16 additional reserves.

17                   And the other thing that's unique -- is  
18 the best word is to describe the situation that  
19 we have on the No. 9 -- is that Section 35 is  
20 surrounded on five sides, five sections, by  
21 Morrow dry holes. There is no commercial Morrow  
22 wells in those sections to the south, so -- and  
23 the field has been fully delineated. You have a  
24 nose that extends there that rapidly falls off on  
25 the east and west and the south, and they're

1 unable to establish any commercial production.

2 Q. Let's turn to the sequence of  
3 spreadsheets that were prepared for eventually  
4 determining the allowable for the Catclaw Draw.  
5 Let me take you back to Exhibit No. 2, which is  
6 the April through September 91 summer proration  
7 schedule. And give us a quick reading of the  
8 status of the allowables for the pool as you  
9 begin to analyze what then should be the  
10 allowables for the winter period.

11 Do you have a copy of Exhibit No. 2?

12 A. Yes. Could you restate question?

13 Q. Sure. When we look at that sheet,  
14 we're dealing with a display that shows the  
15 marginal and nonmarginal wells?

16 A. Yes.

17 Q. What is the total nonmarginal pool  
18 allowable that's available for the nonmarginal  
19 wells in the summer proration period?

20 A. That was 22,117 Mcf. It's over there  
21 in the -- about halfway down on the farthest  
22 right column. And that you can see was assigned  
23 the two units, Catclaw Draw 2 and 14, and also  
24 the 1Y and 13. Since then, the 2 and 14 has met  
25 the requirements to be reclassified as a marginal

1 unit. And the 9, No. 9, which is on there as a  
2 marginal, should be reclassified as a  
3 nonmarginal.

4 So those two basically should have  
5 swapped their marginal and nonmarginal statuses  
6 on the current proration schedule.

7 Q. As we move up to the August 1991  
8 hearing, describe for us what has happened  
9 between the adoption of the summer proration  
10 schedule and the beginning of the process to  
11 adopt the winter proration schedule in terms of  
12 additional deliverability added to the pool.

13 A. Well, basically, we went into a fairly  
14 extensive workover program this summer, started  
15 in May, and we worked over four wells and had  
16 excellent results on three wells. And basically  
17 have added pretty close to 8,000,000 a day of  
18 additional deliverability from the three  
19 successful workovers, and that being -- the wells  
20 being Catclaw No. 9, Catclaw No. 16, and Catclaw  
21 No. 17.

22 Q. Let's go now to Exhibit No. 3, which is  
23 the Division's preliminary allowable estimates  
24 that they circulated to the industry in August, I  
25 believe?

1 A. Yes.

2 Q. Do you have a copy of that?

3 A. Yes, sir.

4 Q. Perhaps now is a useful time to take  
5 that preliminary estimate and turn back to the  
6 presentation you made at the Commission in which  
7 you summarized what you thought the allowable  
8 determination ought to be for the pool when you  
9 utilized two nonmarginal wells.

10 A. Yes.

11 Q. And that will represent in the  
12 rehearing application the second yellow tab. Do  
13 you have a copy of that, Mr. O'Connell?

14 A. Yes. That was this one? Yes.

15 Q. It should be captioned, "Catclaw Draw  
16 Morrow Field, Allowable Determination," says,  
17 "With Two Nonmarginal Proration Units." The  
18 first entry under line 1, "Average Monthly Pool,"  
19 is going to 189,546 Mcf a month?

20 A. Yes.

21 Q. All right. We're all looking at that  
22 same thing. Let's take that spreadsheet that you  
23 prepared and have you make a direct comparison  
24 then to what the Division used for each of those  
25 lines under the column that shows Catclaw Draw

1 starting with the first entry.

2 A. Okay. When we received the early  
3 August preliminary nomination, which you've shown  
4 as Exhibit 3, that's when we knew, based on the  
5 results we were having, that we had to get fairly  
6 actively involved in this because -- or else we  
7 were going to have a significant amount of our  
8 gas curtailed this winter.

9 And going through on the lines, 136,500  
10 for average pool sales, where we show a higher  
11 number, pushing 190,000, I think that's just due  
12 to some data we previously talked about, whether  
13 it comes from C-111's or C-115's, and there's a  
14 discrepancy there that accounts for some error.

15 Q. What's your recollection for how Mr.  
16 Morrow was deriving the sales numbers used for  
17 Catclaw Draw when he prepared his spreadsheet?

18 A. I believe it was from C-111's.

19 Q. He was taking them off the transporter  
20 report?

21 A. Transporter report, yeah, and not the  
22 operator report. There's quite an opportunity  
23 for error and discrepancies there.

24 Q. When we look at the 189,000,  
25 approximately, how did you obtain that number?

1           A.       That's just from going back through our  
2 wells and the other wells and just adding up what  
3 they've been producing during that October 90  
4 through March 91 period.

5           Q.       Okay. Now, let's turn to Exhibit No.  
6 4, which is the spreadsheet for this pool that  
7 was adopted by the Commission and attached to the  
8 Commission order as Exhibit A. What happened  
9 when the Commission order was entered?

10          A.       Well, they used -- increased that  
11 slightly to 146,818, so about a 10,000 Mcf  
12 increase but still --

13          Q.       In your opinion, is the 146,818 an  
14 accurate reflection of sales on a monthly basis  
15 for production from the pool?

16          A.       No. I think for the period they looked  
17 at it, it's still a little bit low. Some data  
18 was missing.

19          Q.       What number would you recommend be put  
20 in the spreadsheet at that point?

21          A.       I think the -- our number, 189,000, is  
22 more reasonable. I think what it is, is we've  
23 got, as operator and as operator of the majority  
24 of the wells, we have quicker access to the  
25 data. And sometimes the data doesn't, either

1 through the different forms submitted,  
2 transporters or whatever, it doesn't get all the  
3 way into the system here.

4 Q. Perhaps the next line to examine in  
5 Exhibit No. 3 is to skip down to the monthly  
6 marginal pool allowable, which would be line 5,  
7 and go across to the Catclaw Draw. What number  
8 do you find in Mr. Morrow's spreadsheet for the  
9 preliminary estimate on Exhibit No. 3?

10 A. 92,289.

11 Q. When we look at your exhibit from the  
12 Commission hearing, what was your calculation of  
13 the average monthly marginal pool allowable under  
14 line 5?

15 A. 203,182. So over twice as big.

16 Q. Can you explain for us why there is  
17 such a substantial difference between the two  
18 numbers?

19 A. Well, primarily, it's from the work  
20 that we have done on the new work that was coming  
21 on-line in May, June, and July that Jim didn't  
22 have access to that info other than through our  
23 nomination number. And also there was going to  
24 be, you know, a well shifting from nonmarginal to  
25 marginal. And, you know, there's some

1 substantial volumes that were suddenly, because  
2 of the big changes in the field, going to be --  
3 would fall under the classification as marginal  
4 well production.

5 Q. When we look now at Exhibit No. 5,  
6 which is the Commission order after hearing, what  
7 was used by the Commission in line 5 for the  
8 monthly marginal pool allowable?

9 A. It was the same, essentially 92,288.

10 Q. So no adjustment was made based on the  
11 data that you had presented?

12 A. No.

13 Q. Let's go back and compare then, and  
14 I'll let you select the next line, to show the  
15 differences between Mr. Morrow's spreadsheet and  
16 your recommendations at the prior hearing so that  
17 we can ultimately understand, Mr. O'Connell, how  
18 we got such a large difference in the actual  
19 allowable being assigned to the two nonmarginal  
20 proration units. Take us through the summary.

21 A. On that Exhibit 8? Or just a  
22 comparison of these?

23 Q. I think on the comparisons is easier.

24 A. Well, the main areas are the -- is the  
25 adjustments. We recommend an adjustment upwards

1 of 268,000 Mcf a month, and that was due to those  
2 three wells coming on.

3 Q. All right. Let's look at the  
4 adjustment line then on the preliminary  
5 estimates, line 3. Preliminary estimate was  
6 72,000 under Mr. Morrow's preliminary sheet?

7 A. No. Preliminary adjustment?

8 Q. Yes, sir.

9 A. 14,000. Next one over.

10 Q. I'm sorry. I was looking at Carlsbad.  
11 14,000?

12 A. Yes.

13 Q. Your presentation for an adjustment is  
14 268,736?

15 A. Yes.

16 Q. And then the Commission order makes an  
17 adjustment for the pool of a little over 95,000?

18 A. Yes, sir.

19 Q. Lead us through the other lines.

20 A. Well, then, basically the adjustment  
21 is added to your average monthly sales, and then  
22 you -- the summation of those is your monthly  
23 pool allowable. And you can see where we're  
24 starting to build our discrepancy. We were  
25 40-some thousand off on the production and

1 170,000 off on the adjustments.

2 So the end result is we have an  
3 allowable that was ultimately assigned 242,288  
4 versus what we felt was a more reasonable number  
5 of 458,282, which is quite a discrepancy.

6 Q. All right. Let's go back now to  
7 Exhibit No. 8 and talk about market demand.  
8 We've got the Commission using a monthly pool  
9 allowable of 242,000, and your recommendation was  
10 458,000. Which of those two numbers more closely  
11 approximates the market demand for production  
12 from the pool?

13 A. Well, I think our number, and then  
14 that's what I've tried to show under Item 2 on  
15 that Exhibit 8. You know, what is total pool for  
16 field market demand?

17 Q. Describe for us how you've analyzed  
18 that issue.

19 A. Well, that's what the other operators,  
20 the other three operators, what they can sell  
21 from their five wells, plus what Hallwood can  
22 sell, which would be an excellent approximation  
23 of market demand. The thing you keep in mind,  
24 the other operators, all their wells are  
25 marginal, and they average around 50,300 a

1 month. So it's pretty safe to assume that  
2 they're going to produce those at that rate or at  
3 or near that rate throughout the winter period.

4 We can sell and, in fact, have  
5 delivered as much as 12- or over 12 million a day  
6 from the pool. We can deliver from 12- to  
7 13,000,000 a day. And that on a monthly basis is  
8 364,800 to 425,600. The total of those, that,  
9 plus the other operators is, again, this 415,100  
10 to 475,900. So a little under half a Bcf a month  
11 for the pool. And that falls close to the range  
12 above, which is pool deliverability.

13 So, essentially, what we're leading up  
14 to is the pool deliverability is equal to -- is  
15 at or equal to market demand for Catclaw Draw.

16 Q. And how does that compare to the  
17 October allowable assigned for the pool under the  
18 Commission order?

19 A. Well, it's about -- our number is about  
20 71 to 96 percent higher than the 242,288 that was  
21 ultimately assigned.

22 Q. Let me have you turn to page 2 of  
23 Exhibit 8, and let's talk about how the market  
24 demand ought to be allocated back to the  
25 individual proration units. Lead us through your

1 analysis.

2 A. Well, what I did here was just jumped  
3 immediately down to line 4, which is monthly pool  
4 allowable, because we're basically assuming the  
5 pool can deliver what the capacity is. And that  
6 number, 445,500, is simply where I averaged our  
7 total range on the previous page, that 415- to  
8 475-range. I averaged that for simplicity rather  
9 than have three or four sets of numbers here.

10 Likewise, the monthly pool marginal, I  
11 averaged that, and that's 214,673. Again, I'm  
12 just following the formula whereby a monthly pool  
13 allowable is established. You subtract off your  
14 monthly pool marginals because they're allowed to  
15 produce. They receive preferential production.  
16 And that leaves you 230,827, which compares with  
17 150,000.

18 As we've discussed, there's two  
19 nonmarginal units, so that would get a monthly F1  
20 of around 115 -- a little over 115,000.

21 Q. Compared to the Commission order of  
22 75,000?

23 A. Yes, sir.

24 Q. Reducing that to an average daily rate  
25 results in what number?

1           A.       About 3.8 million.

2           Q.       Let's turn now to the third page of  
3 Exhibit 8 and have you summarize for us your  
4 analysis of how we got so far apart on the  
5 numbers.

6           A.       Well, that's what I was trying to  
7 simplify here. Just a little simple math  
8 problem. And we're vastly different. And  
9 there's only two areas where we're different, and  
10 that's marginal well production and monthly pool  
11 allowable.

12                   Marginal well production, as I said,  
13 214,000 versus, roughly, 92,000. And that  
14 difference is 122,385. And where that came from  
15 is basically the marginal pool production number,  
16 that 92,000, was based on past production  
17 numbers, not the new production that we have, and  
18 of which the Catclaw 16, a new recompletion,  
19 Catclaw 17, a new recompletion. I found out the  
20 Catclaw 6 production data was absent from the  
21 last two schedules. And also the previously  
22 mentioned shift of the 14 and the No. 2 to a  
23 non -- to a marginal, you add all those up and  
24 there you're at 98 percent, or 120,000 of that  
25 122,000.

1           So that's where the major difference  
2 comes from. It's a combination of some missing  
3 data, some new recompletion data, and the shift  
4 of another well from nonmarginal to marginal.  
5 And the same analogy basically falls through on  
6 the monthly pool allowable.

7           We're 200,000 off, which if you take  
8 the 16, 17, and 6 production off of there, you  
9 wind up with an extra 100,860, which basically,  
10 you know, 75 percent of that could be assigned as  
11 additional allowable to the No. 9 Well, via a  
12 higher F1 factor.

13           Q.       What's your recommendation to the  
14 Commission, Mr. O'Connell?

15           A.       Well, I think, you know, the system we  
16 previously came down here in August prior to the  
17 hearing and discussed this with members of the  
18 OCD, and they requested good numbers, good  
19 nomination numbers, to make the system work. And  
20 that's what we were trying to provide, was good,  
21 accurate representation of what we could produce  
22 and sell.

23           And that's -- we would like to see a  
24 higher -- we would like to see some of the  
25 numbers we provided utilized because I think we

1 proved we can produce that. And if we can't,  
2 we'll adjust our nominations accordingly.

3 Q. In your opinion is there a market  
4 demand for that additional gas production that  
5 the allowables don't currently allow you to  
6 produce?

7 A. Yes. We can sell the gas we can  
8 produce now at Catclaw Draw.

9 Q. Let's look at Exhibit 5, which is the  
10 winter proration schedule that was published by  
11 the Division. Do you have a copy of that?

12 A. The winter proration?

13 Q. Yes. October through March of 92.

14 A. For the Catclaw Draw?

15 Q. Yes, sir.

16 A. Yes.

17 Q. Describe for us any of the particular  
18 details of how this system is now in place for  
19 the winter proration period that causes you any  
20 problems in managing your production from the  
21 pool.

22 A. Well, one of the obvious ones is  
23 basically, at the front of the order, we have the  
24 results of the order, and it discusses our  
25 situation. And the -- a lot of the changes that

1 we recommended didn't get into effect. Most  
2 notably is the No. 9 Well is still classified as  
3 a marginal well with an allowable 8700 Mcf a  
4 month.

5 And, consequently, some of the other  
6 changes that were recommended, both by Hallwood  
7 and by Victor Lyon, as a consultant to the  
8 Commission, did not take effect in the actual  
9 published schedule.

10 Q. Specifically what items?

11 A. Just like the shift from the 2 and the  
12 14 to marginal, some of the acreage factors are  
13 incorrect, and then the corresponding F1's that  
14 would go with those.

15 Q. Let's focus now while I think it's  
16 convenient to look at the overproduction limit,  
17 the OP limit.

18 A. Yes, sir.

19 Q. It's the fourth column over from the  
20 right. And on this schedule for the winter, it  
21 says 222,000-plus.

22 A. Yes.

23 Q. How do you obtain that number?

24 A. That's six times the January F1 -- six  
25 times the current year's January F1 factor.

1 Q. And that would have been January of  
2 1991?

3 A. Yes, sir.

4 Q. That is utilized to get your OP limit  
5 for that nonmarginal well?

6 A. Yes.

7 Q. Tell us what's happened and what effect  
8 that OP limit has on the production from that  
9 well.

10 A. On which? Any specific well?

11 Q. On any of them and how you calculate  
12 the OP limit now.

13 A. Well, basically, it's six times that  
14 January number. And you're technically not  
15 allowed to exceed that amount of overproduction.  
16 If you do, you run the risk of having your well  
17 curtailed or shut in until such overproduction is  
18 made up.

19 Q. Does that OP limit for January of 1991  
20 reflect the ability of that well to produce gas  
21 and sell gas on a monthly basis?

22 A. No. It's just six times the top  
23 allowables, so it's --

24 Q. What adjustment is going to be  
25 necessary in order to preclude that well from

1 being shut in as a result of this OP limit?

2 A. Well, really, the OP limit should come  
3 up to correspond to six times that 75,000 F1 that  
4 was assigned. That would be my recommendation.  
5 The OP limit, it would -- should change with each  
6 six-month period, because in this instance you  
7 have a new F1 with an old OP. You have two  
8 things that are distinctly different.

9 Q. The F1 factor at 75,000 would result in  
10 an OP limit of what number?

11 A. 450,000. It would be six times that  
12 amount, which it's our understanding that won't  
13 take effect until the new proration year, which  
14 begins April 1, 1992. And this was from talking  
15 with Commission people this week.

16 Q. Well, I understand the Commission is  
17 trying to make this proration system, including  
18 the one for the Catclaw Draw, work as effectively  
19 as possible. Do you have any suggestions or  
20 recommendations for the Commission as to how to  
21 avoid having this OP limit being artificially set  
22 too low based upon past data causing wells to be  
23 shut in that would otherwise have a market for  
24 that gas?

25 A. Well, yes. I would recommend that the

1 OP limit change twice a year along with the new  
2 proration schedule.

3 Q. And, apparently, the way this is  
4 working now, the OP limit is only being set once  
5 a year?

6 A. Yes. And it's conceivable that you  
7 could have an OP limit assigned in January of  
8 1991 and be stuck with that OP limit for  
9 literally 15 months until April 1 of the  
10 following year. So I think it could be more  
11 timely to have that OP limit correspondingly  
12 change each of the two six-month periods we have  
13 now because we're not on a monthly basis.

14 Q. All right. I've asked you, Mr.  
15 O'Connell, to review the Commission order, page  
16 3, Findings 9 and 10, and to prepare a response  
17 including your data, your conclusions, and your  
18 comments concerning the specific findings. That  
19 study that you have made is now presented to the  
20 Commission as Exhibit No. 6.

21 And let me have you simply go through  
22 your analysis of the impact of the Commission  
23 order and give us an understanding of your  
24 conclusions and the basis for your reasons that  
25 support those conclusions.

1           A.       Okay.

2           Q.       How did you approach answering the  
3 questions?  What was the first thing you did?

4           A.       Well, the first thing we had to do was  
5 find out the current status of the No. 9 Well,  
6 because that relates directly to part of it, how  
7 the order was issued, and that will be discussed  
8 on page 3.

9                    But the current -- what we've done is  
10 since the recompletion, assumption No. 1 was  
11 that -- and the way that the system works -- the  
12 well was assigned a shadow allowable, which is  
13 the top allowable for that field, during that  
14 period.  And it was assigned that shadow  
15 allowable until the new F1 or the new order went  
16 into effect in October.  And then, again, you see  
17 the current OP limit, 222.

18                   Going through on a monthly basis, it  
19 shows the production, the volumes we've sold from  
20 the well.  Third column is the allowable.  Fourth  
21 column is the over- or under-status.  And bear in  
22 mind that the minus sign represents  
23 overproduction.  And then the cumulative  
24 overproduction status.

25                   So you can see right off that the No. 9

1 Well is currently -- or based on the current OP  
2 limit, is overproduced, although we've reduced  
3 the amount of overproduction in October because  
4 we've cut our production down.

5 Now, the obvious question, or one that  
6 I would anticipate, is why did we get the well  
7 overproduced? Well, that's -- basically, when we  
8 recompleted this well, we needed to determine if  
9 this well would hold up to see if it had  
10 sustainable deliverability.

11 Q. Look back at the Commission order. One  
12 of the specific findings in paragraph 10 presumes  
13 that the producing capacity of this No. 9 Well  
14 may be expected to decline over the next few  
15 months.

16 A. Yes. And that's one thing we wanted to  
17 prove to ourself and to the Commission because --  
18 and I've seen many a Morrow well that have come  
19 on strong and a year later they were -- we were  
20 getting ready to plug them.

21 Q. Does the No. 9 Well demonstrate that  
22 early decline projection?

23 A. No. And also from an internal aspect,  
24 we needed to obtain some good production data to  
25 see if we could support the reserves we intended

1 to book on it to the SEC and that the well, quite  
2 frankly, would not decline off rapidly.

3 And so going on to page 3, I looked at  
4 three portions or three statements of the order  
5 that was issued in October. The first statement,  
6 being an F1 of 75,000, which is 2.46 million a  
7 day, together with the OP limit of 222,888 should  
8 provide sufficient opportunity for operators to  
9 produce their nonmarginal wells.

10 And, basically, it appears to me that  
11 this order was issued on a two-part basis whereby  
12 the intent was to allow this OP limit to act as a  
13 method or vehicle to allow you to essentially  
14 overproduce.

15 If you take that 228 -- or excuse me,  
16 222,888 and spread it out over a six-month  
17 period, that gives you an additional 1.2 million  
18 a day. So you could conceivably produce at  
19 roughly 3.7 million a day. However, as we've  
20 shown on the previous page, we basically consumed  
21 our OP status during the summer. And we don't  
22 have that opportunity to overproduce via the OP  
23 limit unless the OP limit was higher.

24 And I went on to state, the higher F1  
25 would not be excessive at this time. We do have

1 the capacity to produce it. Our purchaser, Gas  
2 Company of New Mexico, has expressed a definite  
3 desire and need to purchase it, the in-state  
4 gas.

5 As I've shown on the map, correlative  
6 rights will be protected because the field has  
7 been fully delineated and it's rimmed on three  
8 sides by dry holes.

9 And also, back to our original  
10 application, we solicited and obtained letters of  
11 support, not objections, by all the other offset  
12 operators in raising allowables.

13 Q. Let's go to page 4 and look at your  
14 statement No. 2.

15 A. Yes. This is what you were alluding to  
16 a couple of minutes ago. The producing capacity  
17 of the Well No. 9 may be expected to decline over  
18 the next few months. All indications to us from  
19 producing data we have to date, flow rates and  
20 pressures have shown little, if any, indication  
21 of decline in the next few months. This well is  
22 a very strong well. Substantial gas reserves.  
23 And, really, it's a well that's longevity is  
24 measured in terms of years, not months.

25 On the following page, page 5, is a

1 plot that we submitted in the August 29 hearing.  
2 It's basically a flow rate versus tubing pressure  
3 versus time. And this was the early time data  
4 since we recompleted in May. And at the bottom  
5 in blue there, you know, this well on the plot  
6 looks like it was averaging 2500 a day at 2200  
7 pounds to 2250. In fact, on June 21 an actual  
8 point was 2546 Mcf at 2250. The well is  
9 currently at 2500 a day, 2100 pounds, which is  
10 only a 6.6 percent pressure drop after producing  
11 nearly 6/10 of a Bcf.

12 So we're pretty encouraged that this  
13 well -- you know, we've only lost just a little  
14 under 7 percent of pressure after producing 6/10  
15 of a Bcf, so that's a good indication it's a  
16 strong well.

17 And then I went on to make a statement  
18 that I discussed a little bit earlier. You know,  
19 we're trying to work with the OCD because the  
20 allowable system has not been working as they  
21 wanted it to. We're providing good operator --  
22 providing nomination volumes to accurately allow  
23 or assist the OCD in establishing allowables.

24 And, quite frankly, you know, we've  
25 recommended the F1 allowable be set at or near

1 our original request, and then when the field  
2 or the well's ability to produce declines, we  
3 will adjust our nominations accordingly. That's  
4 the -- you know, anything we do out here, it's  
5 not a permanent or irreparable. It's only a  
6 six-month occurrence. And next February and when  
7 we prepare for the April -- or the summer  
8 proration period, we can adjust accordingly,  
9 either up or down as needed.

10 Q. I direct your attention to your third  
11 statement concerning the findings of the order.  
12 The order reflects in a finding that the  
13 allowables will be by definition, restrict  
14 production from the highest -- from the highest  
15 capability wells. In analyzing how the Division  
16 and the Commission have handled prorationing in  
17 the other pools that are prorated, have you found  
18 an example of where in fact the highest capacity  
19 or capability wells are not restricted by the  
20 allowable?

21 A. Yes, sir.

22 Q. In your analysis do you find any basis  
23 for restricting the high capacity wells to less  
24 than their capacity in this particular pool?

25 A. No.

1 Q. Do you see any indication of possible  
2 adverse consequences of drainage or damage of  
3 correlative rights of anyone in the Catclaw Draw?

4 A. No, sir.

5 Q. Let's go to your analysis about the  
6 Indian Basin and how the proration system has  
7 worked for Indian Basin and whether or not they  
8 have been required to restrict the high capacity  
9 wells in that pool.

10 A. Well, what I did, I literally just  
11 happened on this one day in going through all  
12 these numbers and comparing things back to  
13 Exhibit No. 4, which was the final field summary  
14 of each of the different wells. If you drop all  
15 the way down to line 8, which is the monthly  
16 acreage factor, you see Catclaw Draw has that  
17 75,000 number, which is our current F1.

18 I looked across there one day just two  
19 rows over to the Indian Basin Morrow field, and  
20 you have an F1 of 146,000 a day. And that's  
21 assigned to one nonmarginal unit. In fact, it  
22 has an acreage factor of less than 1. 146,000 a  
23 day is about a 4.8 million-a-day allowable -- or  
24 excuse me, 146,000 a month is about a 4.8 million  
25 a day allowable.

1           So I looked into it a little further.  
2   And we have an amazing similarity, really,  
3   between Indian Basin Morrow and Catclaw Draw  
4   Morrow. On page 6, I've summarized some of the  
5   similarities. Indian Basin Morrow is only about  
6   ten to twelve miles west of Catclaw Draw.  
7   There's eleven wells, five operators, and one  
8   nonmarginal unit presently. Catclaw Draw has  
9   nineteen wells, four operators, and two  
10   nonmarginal units.

11           Marathon Oil completed the North Indian  
12   Basin Unit No. 8 Well on June of 1990. Had an  
13   AOF of 14-, almost 15 million a day. Our No. 9  
14   Well had an AOF of just under 18 million day, so  
15   you have another similar point. And basically  
16   that well averaged gas sales of 148,000 a month  
17   for the last half of 1990. And allowables were  
18   averaging 52 million a month in the field prior  
19   to Marathon's new well.

20           And this -- maybe we can look right  
21   away. On page 7 is a plot of basically of the  
22   allowables in the Indian Basin Morrow field over  
23   the past year-and-a-half. On the right column is  
24   Mcf per month. On the left column is just an  
25   equivalent Mcf per day. And on the bottom is the

1 monthly periods. Then going to the two six-month  
2 periods on the far right for the current  
3 proration periods.

4 And you can see that the allowables  
5 were in the 50- to 75,000 range. They increased  
6 dramatically to well over 200,000. And even now  
7 they're still around the 150,000 a month.

8 My initial reaction was that maybe  
9 Marathon had gone through a process similar to  
10 what we're going through to obtain all that  
11 increase. And I approached them and discussed it  
12 with some personnel from the Midland office. And  
13 basically they did not do any kind of proactive  
14 request like we're doing. They simply  
15 overproduced their well and were able to get the  
16 allowables up.

17 And the reason they did this was  
18 basically it was a unique well in that it was  
19 completely surrounded by dry holes on all sides.  
20 They never intended to drill down there, but they  
21 dual-completed it with the shallower formation.  
22 They decided to drill to the Morrow. They  
23 happened to get a good well. They produced 1.2  
24 Bcf out of it in about a 15-month period. And  
25 the well is now depleted.

1           They knew from the geology and the dry  
2 holes around it that it was a finite amount of  
3 gas, and so they chose just to overproduce  
4 because they -- the well would fall. The well  
5 eventually fell off a few months ago and is now  
6 not producing.

7           But that's where the similarity ends,  
8 is -- you know, we think our well is going to be  
9 around to produce, you know, for 15, 20, 30 years  
10 or so. And so we've got -- we just can't afford  
11 to overproduce and run the risk of getting shut  
12 in.

13           One other item -- I think one other  
14 point I wanted to make is in that April order,  
15 three fields were singled out: Atoka Penn,  
16 Indian Basin Morrow, and Indian Basin Penn. They  
17 were singled out to raise -- to increase  
18 allowables.

19           The reason was stated: The higher  
20 allowables were based on increasing pool sales,  
21 nominations, and recent producing rates for  
22 nonmarginal wells. And we've met all three of  
23 those criterias in our Catclaw Draw. We've  
24 increased pool sales; we've increased our  
25 nominations; and we've increased our producing

1 rates from nonmarginal wells.

2 And, again, the top allowable now for  
3 the Indian Basin Morrow increased another 33.6  
4 percent to the 146,000 a month. That's 4.8  
5 million a day. And the wells averaged only 2.1  
6 million a day April through June, and is in fact  
7 shut in now.

8 And I made three conclusions from this  
9 that I think help support our position. The  
10 allowables, certainly the months when the  
11 allowables were well over 200,000, did not  
12 restrict production from the highest capacity  
13 wells. Item No. 2, the nonmarginal unit  
14 allowables have increased 178 percent in just  
15 over a year.

16 And the above scenario almost seems to  
17 promote overproducing as a method to raise  
18 allowables rather than working cooperatively with  
19 the OCD to raise allowables. As I've discussed  
20 earlier, they could afford to do that because  
21 they knew they would quickly fall back in line.  
22 We can't for that because we can't afford to have  
23 this well shut in 60, 90-plus day during a period  
24 of peak demand, and so that's why we're here to  
25 work with them, to get these allowables up.

1           Q.       Let me have you turn to the last page  
2 of Exhibit 6 and give us your ultimate  
3 recommendations for the Commission.

4           A.       Well, that was just simply back to a  
5 lot of this math and gyration of numbers that we  
6 talked about. Number one, rather than wait till  
7 April 1, 1992, we could increase the -- we'd like  
8 to see an increase of the OP limit now to  
9 450,000, which is, again, as we've mentioned, six  
10 times the current F1.

11                   And/or -- "and" we'd like both of these  
12 things. We would like to see an F1 factor, you  
13 know, go up to the 140,000-a-month range. Again,  
14 as we've discussed, the allowable well to be  
15 produced at a higher capacity.

16                   MR. KELLAHIN: That concludes my  
17 examination of Mr. O'Connell. We would move the  
18 introduction of Exhibits 1 through 8.

19                   CHAIRMAN LeMAY: Without objections,  
20 Exhibits 1 through 8 will be admitted into the  
21 record. Questions of Mr. O'Connell?

22                   CHAIRMAN LeMAY: Mr. Weiss.

23                                   EXAMINATION

24 BY COMMISSIONER WEISS:

25           Q.       It sounds to me like the basic problem

1 was just one of how to get the data transferred  
2 quickly.

3 A. Yes. I think that's a definite part of  
4 it is there's a --

5 Q. I'm not sure where the OCD gets their  
6 information, but I think it's all public domain  
7 type thing. It's published and yours is not; is  
8 that right?

9 A. No. It's all published. It's state  
10 production numbers. The problem was, I think, we  
11 had all these changes that occurred in the  
12 summer, and the only way to incorporate those was  
13 through our nomination process. We submitted a  
14 nomination of 407,000 Mcf prior to the hearing.

15 And, you know, basically if you took  
16 that 407,000, which Hallwood says we can produce,  
17 and if you added the 50,000 a month from the  
18 other operators, that would be somewhere in the  
19 neighborhood of 460,000. But the end result was  
20 242,000.

21 Q. Somehow or another those numbers didn't  
22 get in the system; right?

23 A. Well, I think they were in. They  
24 weren't fully utilized, or maybe they didn't  
25 believe we could really produce that or not.

1 That's -- you know, I think that's one of the  
2 contentions we're trying to make is, you know,  
3 sure, those are tremendous increases in the pool  
4 deliverability.

5 And maybe there's a tendency not to  
6 believe that that really can transpire. But  
7 we're saying let us produce that and try, and if  
8 we're -- if we can't produce and sell that  
9 amount, we'll adjust our nominations accordingly,  
10 and the system will start working if -- so.

11 Q. Okay. That seems to be the problem to  
12 me.

13 A. Yes.

14 Q. It seems like a lot of extra effort to  
15 have to do this to get those numbers into the  
16 system to go through a hearing.

17 COMMISSIONER WEISS: I think that's my  
18 only question. Thank you.

19 THE WITNESS: Thank you.

20 CHAIRMAN LeMAY: Commissioner Bailey.

21 EXAMINATION

22 BY COMMISSIONER BAILEY:

23 Q. In your comparison with the Marathon  
24 well, with the Marathon well that was completely  
25 surrounded by dry holes, dry Morrow holes, you

1 said this No. 9 was surrounded on five sides by  
2 dry Morrow wells, do you have a decline curve or  
3 any such evidence to show that this well does  
4 have the capacity to produce long-term rather  
5 than following the same type of production  
6 histories as the Marathon well?

7 A. Yes. The one is the exhibit that I  
8 showed the 6 or 7 percent pressure drop. Another  
9 one we don't have enough data on, but we're  
10 plotting flowing tubing pressure versus  
11 cumulative production. And we've really only got  
12 three or four points. And depending on how you  
13 draw a line there, you could say that this well  
14 could produce anywhere from 8 to 18 Bcf. So we  
15 don't have enough good data there to draw a  
16 conclusion.

17 But the one thing I would like to --  
18 the one difference is the Marathon well only had  
19 16 feet of net pay. Our well's got 73 feet of  
20 net pay. So just, you know, on a poor volume  
21 basis, you can get a lot more gas in, what, five  
22 times the amount of pay.

23 So, you know, we've -- we're pretty  
24 confident that we do have substantial gas  
25 reserves and the well is going to be around for a

1 number of years, just based on the pay, based on  
2 the pressures. And I think they saw a rapid  
3 decline in their pressures too where we haven't  
4 seen that.

5 Q. And just a procedural question. Were  
6 the other three operators in this pool notified  
7 of this hearing and did they--

8 A. In our pool?

9 Q. Uh-huh.

10 A. Or in the Catclaw Draw Pool?

11 Q. Yes.

12 A. Yes. Prior to the August hearing, we  
13 approached all of them with this letter, which  
14 they all have signed off on, and they were all  
15 very much in support of raising allowables,  
16 raising nonmarginal allowables.

17 COMMISSIONER BAILEY: That's all I  
18 have.

19 EXAMINATION

20 BY CHAIRMAN LeMAY:

21 Q. Mr. O'Connell, you say 73 feet in the  
22 No. 9?

23 A. Yeah.

24 Q. The environment of deposition, do you  
25 think it's channel sand, or what kind of sand do

1 you think you've got there?

2 A. Well, it's not one -- there's like, I  
3 think, there's five different zones that total up  
4 to that 73 feet.

5 Q. So that's a cumulative?

6 A. Yes. It's just that's one -- that  
7 position of the No. 9 is -- structurally, it's  
8 one of the highest areas in the field. And  
9 somehow it just received a massive amount of  
10 sands there and amount of gas.

11 Q. As far as environment of deposition,  
12 you don't have any idea as to what you're  
13 classifying those reservoirs as? Maybe it's an  
14 unfair question.

15 A. I think they're marine sand deposits.

16 Q. I think with that much sand and  
17 deliverability and you were implying, I think,  
18 that those five dry holes would condemn the  
19 surrounding sections as to those sands spilling  
20 over and having some production in those sectors?

21 A. The problem -- in fact, we've got that  
22 No. 11 Well and we've got -- I should have had a  
23 structure map here. But from the No. 9 Well to  
24 the No. 11, which is just a little over a  
25 half-mile, you basically fall off and go

1 down-structure well over 200 feet, and you fall  
2 down all the way around on those sides.

3 So you literally just have a, you know,  
4 a nose or an accumulation there. And those wells  
5 are down-dip, and they're wet. They were  
6 tested. Some of them produced, oh, 15- or 20,000  
7 Mcf, and then they were just plugged and  
8 abandoned.

9 Q. The 3 and 11 should be originally  
10 down-dip, should they not? What -- the Hanagan  
11 No. 1, Round Tank Mountain, and the Hanagan 10,  
12 those are originally up-dip?

13 A. No. They're down-dip too.

14 Q. They are down-dip?

15 A. Yeah.

16 Q. But I say -- reasonably they should be  
17 up -- but they're down-dip from the No. 9?

18 A. Yeah. You just have a high area there  
19 or a crest, and it's down on all three sides to  
20 the south and to the east and west there.

21 Q. It seemed like most of -- I'm trying to  
22 boil it down to what you want is the only well  
23 that's truly affected in this whole field by our  
24 order and what you want is No. 9, isn't it?  
25 Isn't that what we're arguing about? What can be

1 produced by the No. 9?

2 A. Yeah. It has a secondary benefit too.  
3 By increasing the allowable, it allows our other  
4 proration unit, the 13 and 1Y, to produce without  
5 being shut in. In August I presented some info,  
6 that 13 and 1Y during 1990 was shut in roughly 50  
7 percent -- I think it was 44 percent of the time  
8 because -- even it produced over its allowable.

9 So by raising the allowable for the No.  
10 9, it raises the allowable for the No. 13 and the  
11 1Y, so that's a secondary benefit that we get to  
12 produce that well at higher rates too -- or not  
13 at higher rates. We get to produce it year-round  
14 if we choose to.

15 Q. I thought your testimony was the 1Y and  
16 No. 13 had a deliverability at approximately 1.4  
17 million a day?

18 A. Yes.

19 Q. Well, 75 Mcf a day would accommodate  
20 that deliverability, would it not?

21 A. Seventy-five million?

22 Q. Isn't that what --

23 A. Yeah, it does now. Okay. I see. But  
24 previously it didn't. Yes, going from the --

25 Q. Prospective you're okay, aren't you?

1 A. On that one?

2 Q. Yes.

3 A. Yeah.

4 Q. So is it truly No. 9 we're talking  
5 about, prospectively now?

6 A. Yes.

7 Q. As to curtailment?

8 A. Yes. Yes, literally we can produce  
9 everything else within the guidelines of the  
10 75,000,000 a month, or 75,000 Mcf a month. But  
11 we would like to produce the No. 9.

12 Q. So we're talking about the No. 9 then?

13 A. Yes, sir.

14 Q. As the critical well?

15 A. Yes.

16 Q. Would it be fair to characterize -- and  
17 I think I got this from you -- but correct me if  
18 I'm wrong. Were you saying a prorated field, if  
19 we can produce it, we should be allowed to  
20 produce it?

21 A. If the market demand exists, I would  
22 say yes.

23 Q. What would be the purpose of proration?

24 A. Well, I think proration still serves a  
25 purpose to protect correlative rights, to

1 establish well spacing, and all that and also to  
2 prevent -- you know, if you didn't have  
3 proration, I guess you could overproduce  
4 considerably.

5 Q. Well, you can't overproduce if you're  
6 setting the allowable at the limit of the best  
7 well in the field, are you? How can you  
8 overproduce?

9 A. Well, the 5,000,000 a day that we'd  
10 like to see it, the well has produced at more  
11 than that. We can -- we're holding it at  
12 5,000,000. I guess conceivably you could go out  
13 and -- if somebody wanted to, you could go out  
14 and produce this well at 9 or 10 million until it  
15 was just exhausted, but we don't want to do  
16 that. I think that's overproducing.

17 You know, I think proration still has a  
18 benefit.

19 Q. But by setting the allowable at the  
20 deliverability of the best well in the field, you  
21 think that proration still is valid with that  
22 kind of a concept?

23 A. Yes. Yeah, I think so. I think it  
24 keeps things in balance. It protects you on a  
25 correlative rights basis.

1           Q.       I have a hard time understanding the  
2 difference in a non-prorated field and a prorated  
3 field that's set at the deliverability of the  
4 best well in the field.

5           A.       Well, I don't think we're really  
6 setting it at the deliverability because, you  
7 know, the deliverability, I guess, is anywhere  
8 between zero and almost 18 million a day. We're  
9 just setting it at a reasonable rate that we  
10 would like to produce, and it happens to be the  
11 highest rate in the field.

12          Q.       The OP, you used as a comparison the  
13 North Indian Basin field. Are you familiar with  
14 the way we used to set allowables prior to the  
15 six-month period where we encouraged operators to  
16 overproduce which would define the market and  
17 therefore they would get increased allowables?

18          A.       Yes. Yeah, that's a method, you know,  
19 and we've debated that internally and with  
20 Victor. And, you know, overproducing is a way to  
21 get your allowables up.

22          Q.       But it's also a way to define the  
23 market, is it not, in the past where nominations  
24 were not proving a reliable factor?

25          A.       Yeah. It's a way to -- yeah, a way to

1 define market demand; is that what you're  
2 saying?

3 Q. Yes.

4 A. Yeah.

5 Q. And are you familiar with our proration  
6 system now where that's not the way we define  
7 market or assign allowables, although production  
8 is used?

9 A. Yeah. We're going to a nomination  
10 process and actual past production.

11 Q. So it still is a factor, I think, but  
12 it's probably not as big a factor as it was  
13 before --

14 A. Yeah.

15 Q. -- where it was the only tool?

16 A. Yeah. But the risk we ran there,  
17 that's -- you know, that's the business risk I  
18 guess we could have taken is, I guess, we could  
19 have avoided all the hearings and all this and  
20 just overproduced.

21 If we hadn't have come to the hearing,  
22 we might not have even got assigned the 75,000  
23 Mcf allowable last time. And if we had an  
24 allowable that was only 20- or 30,000, we could  
25 have that well way overproduced in no time, you

1 know. And that's what we can't afford to do is  
2 run the risk of getting the well shut in for, you  
3 know, 80, 90, 100 days or so.

4 So that's -- we were trying -- the  
5 system -- I agree with you 100 percent. The  
6 system will work if overproducing and that. We  
7 were trying to short-circuit or speed up the  
8 system because we had such a dramatic change in  
9 the field, and we didn't want to wait a year to  
10 go through essentially two proration periods to  
11 let all the wells shake out and change from  
12 marginal to nonmarginal, et cetera.

13 Q. Yes. That's the gist that I got from  
14 Commissioner Weiss' comments and what he said;  
15 that the reason basically why you're here is you  
16 want to speed up the system you want to  
17 short-circuit it, give us information which is  
18 ahead of what we would normally compile by our  
19 proration rules, where we get our information,  
20 and how it's incorporated into the system?

21 A. Exactly.

22 Q. Again, our proration system, did you  
23 imply that the OP is intended for continuous  
24 overproduction? You made some comments to the OP  
25 limit. And I got the idea that you were assuming

1 that that OP limit was there so that operators  
2 could continuously overproduce rather than allow  
3 the flexibility to produce additional volumes in  
4 various months, but there would still be a  
5 make-up period?

6 A. No, not continuously overproduce. But  
7 the main thing I was trying to point out there is  
8 we, as I mentioned, through the summer in testing  
9 the well and producing it, we used up our OP  
10 limit.

11 And the order was issued -- you know,  
12 the intent of the order was good; that, you know,  
13 if we started into October with zero  
14 overproduction, we could be producing at 3.7-,  
15 3.8 million a day, a fairly comfortable number.  
16 But we've used up that opportunity.

17 Q. But there will be a limit how much you  
18 could produce, overproduce of that number; isn't  
19 that correct?

20 A. Oh, yeah.

21 Q. You couldn't produce it forever. The  
22 OP limit didn't give you additional allowables,  
23 so to speak. It would give you additional  
24 allowables for the period of time you might need  
25 it?

1           A.       Yeah.  But, no, you can't always use  
2 it.

3           Q.       You can't always use it.

4           A.       Yeah.

5           Q.       You also made a suggestion that's an  
6 interesting one.  You would suggest that the OP  
7 limit should be based on the most current  
8 January -- we don't have January yet -- but you  
9 would like to see us use the -- set the OP limit  
10 on January 92 production rather than January 91  
11 because of -- of course, the additional allowable  
12 that you have in January 92 compared to January  
13 91?

14          A.       Well, the thing that I would prefer --  
15 yeah, that's the interesting question that we  
16 arrived at this week and talked to three  
17 different people.  And, you know, the current OP  
18 limit is based on the current year.  Does it --  
19 on January 1 does it change to 450,000?  And the  
20 answer is no because, really, the proration  
21 schedule doesn't change now.  Come January we  
22 don't get a new schedule, so there's no real way  
23 to change it.

24                    So I think in looking at that, I'd  
25 rather see it change twice a year based on the --

1 at the start of each proration period. I think  
2 that would be more timely and more accurate.

3 Q. Based on what production month if you  
4 changed it twice a year?

5 A. Well, I'd just base it on your new F1  
6 at the start of each proration period.

7 Q. Like a January-June?

8 A. No. Like your -- it would be based on  
9 your April 1st F1 and then your October 1st F1,  
10 so it would change, because, as we've shown, a  
11 lot of events can happen in the course of a year  
12 or 15 months that could make the OP outdated.

13 And since we only -- we're only going  
14 to go to two proration schedules or get two  
15 proration schedules a year, that would be an  
16 excellent time to change them, at the start of  
17 each of those six-month periods.

18 CHAIRMAN LeMAY: Okay. Thank you.

19 MR. STOVALL: I've got a couple of  
20 questions I want to check on.

21 EXAMINATION

22 BY MR. STOVALL:

23 Q. Talking about the OP thing first, since  
24 that's what you're on --

25 A. Okay.

1           Q.       -- in the case of the Hallwood wells in  
2 the Catclaw Draw, part of the reason that you  
3 reached your OP limit in the summer was the fact  
4 that you had done this work this particular year,  
5 and it increased the capacity of those wells  
6 during that proration period; is that not  
7 correct?

8           A.       Yeah, in the middle of the summer  
9 proration period, because we did this work in  
10 May, which was already a month-and-a-half into  
11 the period.

12          Q.       So what that in effect did is -- well,  
13 let me back up and go through the system and make  
14 sure your understanding of it is the same as  
15 mine, because it goes to some other questions as  
16 well. The preliminary nominations or schedule  
17 put out by the Division is based upon production  
18 or sales, however you want to identify it, for  
19 the similar like period of the previous year; do  
20 you understand that to be correct?

21          A.       Yeah. Yeah, actually there are --

22          Q.       So, in other words, when this schedule  
23 was initially put out prior to the August  
24 hearing, it was based upon October through March  
25 production for the previous --

1 A. Yeah.

2 Q. -- period; right?

3 A. Yeah. And at that time the -- you  
4 know, the Catclaw 9 was making 300 Mcf a day.

5 Q. So in that -- with respect to that  
6 part, the fact that you did the work, what you're  
7 telling us is you came in with the nominations  
8 and tried to say, "Hey, we've done some things  
9 that have caused that to be unreliable  
10 information upon which to" --

11 A. Yes, exactly.

12 Q. But given the fact that -- looking at  
13 the system as a whole -- that the reason the  
14 January allowable is chosen as the OP is because  
15 that should be seasonally the highest month of  
16 the year in terms of business roughly?

17 A. Right.

18 Q. It's right in the peak; is that  
19 correct?

20 A. Right.

21 Q. Would it be -- taking out the factor of  
22 reworking wells and increasing capacity in the  
23 middle of the summer, could it not work to the  
24 detriment of operators to have the OP limit go  
25 down in the summer? What would you

1 presumably do, because presumably the factors  
2 that affect proration would cause the allowables  
3 to go down in the six-month summer proration  
4 period?

5 A. Yeah, I guess that is a possibility  
6 that it -- if you're -- yeah, that would be  
7 something we'd have to consider, one of the  
8 alternatives if it went down. But I guess -- I  
9 guess all I'm saying is that if it changed twice  
10 a year, it would change correspondingly with your  
11 allowable or your production limit.

12 Q. Well, as it did on a monthly period, it  
13 followed the allowables based upon the month, so  
14 it changed on a monthly basis. And you're  
15 saying: "Do the same thing. Follow the  
16 proration period and change it."

17 A. Yeah.

18 Q. But a lot of your conclusions and  
19 recommendations are based upon what was really an  
20 unusual summer for Hallwood in the Catclaw Draw;  
21 isn't that right, in terms of the stimulation and  
22 reworking of the wells?

23 A. Oh, yeah. Yeah. I wish we could do it  
24 again next summer, but I'm afraid we can't.

25 Q. Leaving that and going back to the

1 other part of the information Commissioner Weiss  
2 asked you -- or essentially told him in response  
3 to his question -- the large part of the problem  
4 was due to the fact that the information flow was  
5 not accurate. And, again, that was due to the  
6 fact that to establish the proration schedule,  
7 the OCD compared like periods of the year?

8 A. Yeah.

9 Q. And the information which Hallwood  
10 generated, again, in an unusual summer of large  
11 capital expenditures and some successful  
12 reworking, was in the opposite proration period.

13 A. Yes.

14 Q. So that information would not -- would  
15 only come into the thing through the nomination  
16 process, not through the reporting process;  
17 right?

18 A. Yeah.

19 Q. So it didn't indicate -- so with  
20 respect to that information, there was not a  
21 deficiency in the actual OCD C-115, C-111  
22 reporting process, to the best that you can see?

23 A. Just a little bit due to production.  
24 There were some numbers there, but not 100- or  
25 200,000 difference. It was only 20 or 30. But,

1       yeah, the main difference was in the nominations  
2       that, you know, we would have liked to see more  
3       of an emphasis or use of our nominations because  
4       we felt like they were good, accurate, timely  
5       data that would have helped set this allowable  
6       higher.

7           Q.       But let me go back to make sure I  
8       understand because I think it does indicate  
9       something that we need to look at, if I'm  
10      understanding you correctly. The preliminary  
11      pool sales, the Division came out -- I guess it's  
12      your Exhibit 3, I believe?

13           A.       Yes.

14           Q.       -- showed 136,500. Based upon C-111's,  
15      which is what the Division has always used for  
16      the allowable system and still does up to this  
17      point; is that correct?

18           A.       Uh-huh.

19           Q.       But you -- I think you said -- and I  
20      can't find the exhibit right offhand -- but I  
21      think you told us that your C-115's for that same  
22      period were considerably higher?

23           A.       Yeah, about 190,000 versus 136.

24           Q.       Again, remember I'm asking these  
25      questions not to challenge you or to question

1 your numbers, but I'm trying to say, given -- and  
2 I'm assuming when you're talking C-115, you're  
3 talking about disposition and not production on  
4 the C-115, because there would be some field use,  
5 but it would be certainly less than that  
6 difference.

7 A. Oh, yeah.

8 Q. Have you been able to identify where  
9 the problem is and why there is a such a drastic  
10 difference between -- that all gas that's  
11 disposed of should show up on a C-111 someplace,  
12 shouldn't it?

13 A. Yeah. I'm not 100 percent sure, but if  
14 you take our 190 versus the 136, that's what?  
15 44,000 difference. I think about half of that is  
16 one well -- the No. 6 was missing. I've noticed  
17 over the last couple of periods that production  
18 data was missing, and that makes 20-, 22,000 a  
19 month.

20 Q. Missing off the schedule?

21 A. Yes.

22 Q. Off our proration schedule, it's not  
23 showing up; is that what you're saying?

24 A. Yeah.

25 Q. Have you done anything to look into our

1 system to see if the 111's are in or if that  
2 information is getting entered into our system?

3 A. Yeah, I think we have via Vic Lyon  
4 helping us, I believe.

5 MR. STOVALL: That's something I would  
6 suggest, Mr. Chairman, that we need to look at  
7 that to see if -- because if there are some  
8 problems there, we definitely need to look and  
9 make sure we're getting that.

10 Q. Of course, that's part of the new  
11 system that will be coming out, and we want to  
12 make sure we're -- one of the purposes is we'll  
13 be able to match up 111's and 115's. And if that  
14 data is not good, we need to figure out how that  
15 is. So I would appreciate your assistance in  
16 that.

17 But that's really the big area where  
18 any discrepancies or lack of accurate, timely  
19 transmission of information occurred was for this  
20 like period where you're saying one well  
21 basically got left out of the nominations or the  
22 proration system in some way; is that correct?

23 A. Well, actually it was three wells.  
24 Three wells.

25 Q. Okay. Those three that are listed on

1 whatever exhibit that is?

2 A. Yeah. Substantial volumes.

3 MR. STOVALL: I don't have any other  
4 questions.

5 CHAIRMAN LeMAY: I have one, maybe  
6 two. They're related.

7 FURTHER EXAMINATION

8 BY CHAIRMAN LeMAY:

9 Q. Do you know of any proration units or  
10 any wells that are in the Catclaw Draw field that  
11 by Commission or Division order have had their  
12 production restricted?

13 A. Over what period?

14 Q. Well, normally a nonorthodox location  
15 that's, we'll say, opposed sometimes the  
16 Commission or Division will issue a restricted  
17 allowable where the allowable serves as a purpose  
18 to limit production from that well.

19 A. You mean as a penalty?

20 Q. As a penalty.

21 A. No. I'm not aware of any.

22 MR. STOVALL: No unorthodox locations  
23 or anything in there which would have a penalty  
24 applied to them?

25 THE WITNESS: No, I don't believe there

1 is because that would -- probably if they had a  
2 penalty, that would show up in the form of --  
3 well, I don't know if the penalty would be in the  
4 reduced acreage factor or --

5 MR. KELLAHIN: Mr. Chairman, there are  
6 none.

7 CHAIRMAN LeMAY: Thank you, Mr.  
8 Kellahin.

9 Q. (BY CHAIRMAN LeMAY) The reason for  
10 that question was then have you considered an  
11 alternative type application, one that would  
12 de-prorate the Catclaw Draw field rather than  
13 trying to get allowables that would accommodate  
14 you once you were --

15 A. Yes, with all the events that are going  
16 on in Burton Flats, which we understand is  
17 effectively de-prorated now, you know, that  
18 certainly is another option. Personally, it's a  
19 very time-consuming process to de-prorate a  
20 field.

21 And as the major operator in the field,  
22 the other operators would anticipate or expect us  
23 to carry that ball forward. And, you know,  
24 personally we would not -- we would rather not  
25 pursue a de-proration if we can accomplish what

1 we want here just because it is very  
2 time-consuming. You've got to notify everybody.  
3 And, you know, it would be probably several trips  
4 down here.

5 And we would rather -- selfishly, we  
6 would rather direct our energies towards finding  
7 more gas and oil than de-prorating what we  
8 already have, quite frankly.

9 Q. The only other question was concerning,  
10 again, our proration system and the place that  
11 nominations have in that system. Are you under  
12 the impression that nominations are a determining  
13 factor currently in the way allowables are set?  
14 Or what is your view as to the role of  
15 nominations in the proration system?

16 A. I think they should be a determining  
17 factor because they're the best information and  
18 they can reflect any big change. I don't think  
19 they have been used. In fact, maybe we could  
20 point out that statement that -- should we point  
21 out that statement that Jim made prior to the  
22 hearing?

23 We would like to see nominations used.  
24 In reading the transcripts from the August  
25 hearing, Tom asked -- Tom Kellahin asked Jim

1       Morrow: "Now, have you received any nominations  
2       from the transporters or purchasers with respect  
3       to proposed allowables for the upcoming period?

4                 "Answer: We've received some, just  
5       very scattered nominations in the various pools.  
6       Actually, the only pool where we received  
7       nominations which even come close to what we have  
8       proposed to assign here is in the Catclaw Draw  
9       Pool where we received nominations totaling a  
10      monthly allowable of 407,000 Mcf on the monthly  
11      basis." And that was the number we provided.

12                So I think the intent was to use that  
13      or, as Jim expressed, he was proposing to assign  
14      something based on that and then when the final  
15      analysis came out, it got cut nearly in half.

16                Q.     Did you notice any difference in what  
17      was preliminarily proposed for Catclaw Draw in  
18      the way of allowables and what came out in the  
19      final order? Was there any difference?

20                A.     In the preliminary and the final?

21                Q.     Yes.

22                A.     Yeah, it increased slightly, I believe,  
23      but not -- yeah, you know, the preliminary  
24      allowable was 150,500, the final was 242,248.

25                Q.     Would you consider that marginal? That

1 sounds significant to me as far as an increase.

2 A. Yeah. But then comparing that to the  
3 nearly 460,000 that can be produced, it's still a  
4 long way off.

5 Q. Well, yeah. Nominations -- the absence  
6 of nominations, would you not expect that the  
7 preliminary order would have been the final order  
8 without your input of nominations? What other  
9 factors --

10 A. Yeah, with the absence.

11 Q. -- were an intervening factor in there?

12 A. On the preliminary?

13 Q. Yeah. Between preliminary and final  
14 what other element besides your nominations could  
15 have increased the allowable in that field for  
16 this six-month period?

17 A. Well, the hearing, the information we  
18 testified at the hearing.

19 Q. Which was basically nominations, was it  
20 not?

21 A. Yeah, trying to support our  
22 nominations.

23 Q. Well, then, wasn't it the nominations  
24 that were the increasing factor for allowables?  
25 Wasn't it your nominations that increased the

1 allowables from, what, 150 to 240?

2 A. Yeah. But, again, we only received a  
3 partial increase.

4 Q. I understand. It wasn't everything you  
5 wanted, but if you didn't have any nominations at  
6 all, would you not expect the previous allowable  
7 to prevail?

8 A. Oh, exactly. And that's why we came to  
9 the hearing, because the preliminary allowables  
10 were much lower than what we could live with,  
11 yes.

12 Q. As I understand it, the nominations are  
13 a factor in our proration system generally, but  
14 they're not the determining factor. And that's  
15 been historically true since nominations from  
16 pipelines, which did define market, since that  
17 was no longer the case when the spot market  
18 evolved, we still collect nominations.

19 A. Yeah.

20 Q. I didn't know if it was your impression  
21 that these nominations were as critical as they  
22 were when pipelines were defining the market, or  
23 they were just a factor along with a lot of other  
24 things that are used to determine allowables.

25 A. Yeah, I understand that. And we, I

1 guess, would like to just see more of an emphasis  
2 on the nominations because in some of our  
3 preliminary meetings, that was what was expressed  
4 to us. Everybody knew the nominations were  
5 meaningless in many fields.

6 And they've gone from purchaser or  
7 transporter -- in Catclaw we've gone -- Hallwood  
8 nominates all of our volumes, and we instruct Gas  
9 Company not to so you don't get a duplicate. And  
10 that is fine with the OCD personnel, because they  
11 told us, they flat out -- they would like one  
12 good source to get the nominations from.

13 And we said, "Well, we're the best  
14 source. We operate the most wells in the field.  
15 And we'll tell Gas Company not to. And we'll  
16 give you a good number for nominations."

17 Q. Would you consider nominations  
18 meaningless? Did I hear you say that, or was  
19 that --

20 A. I think they were in the past.

21 Q. They certainly affected your allowable  
22 in this field, didn't they?

23 A. Oh, in this hearing, yeah, absolutely.  
24 In the past nominations have not ever been used  
25 in --

1                   COMMISSIONER WEISS: I think he's  
2 talking about a long time ago.

3                   THE WITNESS: Yeah.

4           Q.       (BY CHAIRMAN LeMAY) I was trying to  
5 clarify your impression of nominations in the  
6 process we use with nominations, the emphasis, if  
7 any, we place on them.

8           A.       Yeah.

9                   CHAIRMAN LeMAY: Any other questions of  
10 the witness?

11                   MR. STOVALL: I do have a couple of  
12 other things, real quick.

13                                   FURTHER EXAMINATION

14 BY MR. STOVALL:

15           Q.       With respect to the issue of  
16 de-prorating the pool, how many multi-well  
17 proration units are there? Are the majority of  
18 them? Looks like yours are from the schedule  
19 that I see.

20           A.       Yeah.

21           Q.       Largely multi-well units?

22           A.       Yeah. I can tell you quickly. There's  
23 one, two, three, four, five, six, seven -- I  
24 believe there's at least eight.

25           Q.       Eight multi-well proration units?

1           A.     Yeah.

2           Q.     How many total proration units in the  
3 pool?

4           A.     Eighteen, I believe, or 16.

5           Q.     Half of them are multi-well. So, in  
6 your opinion, would that be a good reason for  
7 retaining proration in the pool even if it  
8 doesn't effectively restrict production at any  
9 point in time as to put some control on  
10 multi-well units given the knowledge that we  
11 don't allow multi-well units as a general rule in  
12 unprorated gas pools?

13          A.     Yeah.

14          Q.     The other question is do you know of  
15 any operators in this pool who are withholding  
16 production from the market for business reasons  
17 that they have chosen on their -- in other  
18 words, are there some of these wells, actually  
19 marginal -- are some of the proration units  
20 actually marginal because operators are not  
21 producing them at capacity for whatever business  
22 reasons they might choose not to produce them?

23          A.     No. I think they're all producing  
24 essentially at their capacity in talking to  
25 people and looking at the performance of the

1 wells.

2 Q. So the production that's showing up is  
3 realistic capacity level production rather than  
4 artificially restricted by the --

5 A. Yes, sir.

6 CHAIRMAN LeMAY: I guess I have a  
7 couple of follow-up questions to Mr. Stovall's.

8 FURTHER EXAMINATION

9 BY CHAIRMAN LeMAY:

10 Q. The Catclaw Draw field is on 640-acre  
11 spacing where a second well is allowed; is that  
12 true?

13 A. Yes.

14 Q. You mentioned multi-wells, so I would  
15 assume rather than 320's --

16 A. It went both ways. This is a unique  
17 field. It was 640's, it went to 320's, and then  
18 it went back to 640's. Is that my --

19 MR. KELLAHIN: Mr. Chairman, a number  
20 of years ago when Tenneco was the primary  
21 operator in the pool, they believed that there  
22 was an ability to drill additional wells and that  
23 640 spacing was too wide. They entered into a  
24 Division-approved de-spacing or down-spacing to  
25 320.

1           And the ink was hardly dry in the order  
2 when they realized they had disturbed existing  
3 equities because of different ownerships within  
4 the 640. And so we had the down-spacing order  
5 set aside and substituted in infield drilling  
6 procedure in Catclaw Draw.

7           So there may be a glitch when you look  
8 at some of the acreage components in the  
9 schedule. It's supposed to be 640 as the  
10 standard size with an infield option.

11           CHAIRMAN LeMAY: Thank you, Mr.  
12 Kellahin. The Catclaw Draw unit being unitized,  
13 what would be the practical effect of utilizing  
14 320-acre spacing now if you unitized it?

15           MR. KELLAHIN: Well, the unit only  
16 covers the royalty interests. Working interests  
17 are not unitized.

18           CHAIRMAN LeMAY: Thank you.

19           Additional questions of the witness?  
20 If not, he may be excused. Thank you.

21           THE WITNESS: Thank you.

22           MR. KELLAHIN: Mr. Chairman, I think  
23 the topic of proration is probably the most  
24 complicated, convoluted exercise that we  
25 undertake. And I've heard some comments today

1 about prorationing being used to accomplish  
2 different things. We have additional experts,  
3 and I'll leave it to the Commission to decide if  
4 you want any of them to comment.

5 I would like to discuss with the  
6 Commission some of my own personal conclusions  
7 about prorationing and have you correct me if  
8 I've been wrong for the last 20 years, but  
9 there's some things perhaps I don't understand  
10 that may affect what we're doing in Catclaw  
11 Draw.

12 So subject to making a closing  
13 statement, I would simply invite the Commission  
14 to ask any of the other witnesses available here  
15 for comments if you desire to do so.

16 CHAIRMAN LeMAY: I think we've pretty  
17 well covered a lot of our concerns. Certainly in  
18 the closing arguments you can address what you --  
19 any comments on what proration, I guess, affects  
20 Catclaw Draw.

21 MR. KELLAHIN: We provided you with a  
22 rehearing statement in which I tried to summarize  
23 as clearly as I could what I think is a correct  
24 analysis of the prorationing system in New  
25 Mexico. I'm not sure I yet have it all figured

1     figured out in a simple way to explain to any  
2     layperson.

3                 But, as I understand it, it is a  
4     pool-driven market demand prorationing where we  
5     identify a common source of supply and identify  
6     market demand. And in those instances where the  
7     total pool deliverability exceeds that market  
8     demand, then there is the opportunity to prorate  
9     the pool.

10                Catclaw Draw and Morrow are two pools I  
11     prorated, one of the first things I did in 1972.  
12     And the basic benchmark that I was told then is  
13     that if total pool deliverability exceeds market  
14     demand, then and only then can you consider  
15     prorationing.

16                The great perceived evil, I guess, at  
17     that point in time is that when there's excess  
18     pool deliverability, the fear is that the  
19     pipeline purchaser at that time would work a  
20     special deal with certain operators that had high  
21     capacity wells, satisfy the entire market demand  
22     from a few wells, leaving all of the rest of the  
23     wells in the pool despite the fact that they want  
24     to access the market to in fact have no market.

25                In addition, there was integrated the

1 idea of multiple pipeline takers. Again, to  
2 avoid the opportunity where one pipeline would  
3 take gas from the pools, satisfy the entire  
4 market demand, and because other wells were tied  
5 into another pipeline, despite their desire to  
6 sell that gas at whatever price, they could not  
7 produce the gas. And, therefore, drainage was  
8 going to occur. The big super wells were going  
9 to get their share of the gas and everybody  
10 else's share, and the people that had wells and  
11 investments in the pool could not produce.

12           When we got around to Burton Flat again  
13 and substantial effort to examine prorationing,  
14 we finally de-prorated that pool. And the  
15 benchmark again was that the market demand at  
16 that point in time had substantially exceeded the  
17 deliverability of that pool, even with  
18 projections of what additional capacity might be  
19 obtained by recompletions and workovers.

20           When we come to the Catclaw Draw, I  
21 find it confusing to find that allowables are  
22 being set in this pool on something other than  
23 market demand. The nominations provided by  
24 Hallwood in this particular case reflect market  
25 demand. They can't reflect anything else.

1           I think that's what Mr. O'Connell's  
2 testimony has been: That he has analyzed it; Gas  
3 Company has supported us and said, "We can take  
4 and sell this gas. That represents the market  
5 demand." He provides us a number, 450,000 --  
6 whatever it was -- on a monthly basis. And we  
7 say, "We've done our homework. We've done our  
8 job. We've come to the Commission and satisfied  
9 you an accurate projection of market demand for  
10 pool production."

11           The allowable schedule is issued, and  
12 we received allowables that don't reflect market  
13 demand. I'm not sure what they reflect, except  
14 the impact is to cause us not to sell gas from  
15 the pool that Gas Company would otherwise take  
16 from this pool and unless changed, they're going  
17 to go to some other market or some other state.

18           I think we don't need to de-prorate  
19 Catclaw Draw at the present time. It's  
20 premature. There are a lot of hurdles to climb  
21 over. The system will work if we adjust the  
22 allowables based upon market demand.

23           I find no obligation in your statutory  
24 authority or any of the articles that I can find  
25 and I have cited in the rehearing application

1 that obligate you to substitute an allowable so  
2 that the high capacity wells are restricted and  
3 are set below market demand. I don't find  
4 anything in the system that quite frankly  
5 provides that.

6           When we look at Catclaw Draw, Mr.  
7 O'Connell tells you that the wide open flow of  
8 the No. 9 Well may in fact be in excess of the  
9 maximum efficient rate at which to produce this  
10 well. And he's not yet prepared to tell you that  
11 the total market demand for this pool exceeds the  
12 deliverability. We're pretty close, but I think  
13 the No. 9 Well ought to be curtailed less than  
14 its total absolute open flow.

15           He has restricted his well to a market  
16 demand number however. The Commission order as  
17 issued gives us substantially less. We find no  
18 basis for doing so and would ask that you make an  
19 adjustment effective October 1 to reflect  
20 Hallwood's undisputed evidence as to what market  
21 demand is and adjust the allowables so the well  
22 can be produced over the winter portion and this  
23 gas production can go into the market and satisfy  
24 that market demand.

25           I have in the rehearing application

1 made references to other treatises. I've cited  
2 some articles written by knowledgeable experts on  
3 prorationing. If anyone cares to look at those,  
4 I'll be happy to copy them and submit them to the  
5 Commission for your analysis.

6 But the summary I made in the rehearing  
7 application is what I truly believe to be a  
8 proper analysis of market demand in New Mexico  
9 and that unless we adjust this pool's allowable  
10 to reflect the market demand, we are not  
11 consistently executing our duties pursuant to the  
12 definition in the statute.

13 Thank you.

14 CHAIRMAN LeMAY: Thank you, Mr.  
15 Kellahin.

16 Are there any additional statements in  
17 Case 10377? Any additional testimony? If not,  
18 we shall take the case under advisement. Thank  
19 you.

20 (The proceedings were concluded  
21 at the approximate hour of  
22 10:50 a.m.)

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CERTIFICATE OF REPORTER

STATE OF NEW MEXICO )  
 ) ss.  
COUNTY OF SANTA FE )

I, Debbie Vestal, Certified Shorthand Reporter and Notary Public, HEREBY CERTIFY that the foregoing transcript of proceedings before the Oil Conservation Commission was reported by me; that I caused my notes to be transcribed under my personal supervision; and that the foregoing is a true and accurate record of the proceedings.

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

WITNESS MY HAND AND SEAL NOVEMBER 20, 1991.

  
DEBBIE VESTAL, RPR  
Certified Shorthand Reporter No. 3