

1 NEW MEXICO OIL CONSERVATION COMMISSION

2 STATE LAND OFFICE BUILDING

3 STATE OF NEW MEXICO

4 CASE NO. 10526

5
6 IN THE MATTER OF:

7
8 The Oil Conservation Division is
9 Calling a Hearing on its Own Motion
10 to Accept Nominations and Other
11 Evidence and Information to Assist in
12 Determining October 1992 through March
13 1993 Gas Allowables for the
14 Prorated Gas Pools in New Mexico.

15 BEFORE:

16 CHAIRMAN WILLIAM LEMAY

17 COMMISSIONER GARY CARLSON

18 COMMISSIONER BILL WEISS

19 FLORENE DAVIDSON, Senior Staff Specialist

20 State Land Office Building

21 August 13, 1992

22
23 REPORTED BY:

24 CARLA DIANE RODRIGUEZ
25 Certified Shorthand Reporter
for the State of New Mexico

ORIGINAL

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

1 CHAIRMAN LEMAY: The first case I'll
2 call is Case 10526. That's the application--

3 MR. STOVALL: Excuse me. I'm back from
4 vacation and I've remembered what I do here.

5 CHAIRMAN LEMAY: It's the last case on
6 the docket.

7 MR. STOVALL: The Oil Conservation
8 Division is calling a hearing on its own motion
9 to accept nominations and other evidence and
10 information to assist in determining October 1992
11 through March 1993 gas allowables for prorated
12 gas pools in New Mexico.

13 CHAIRMAN LEMAY: I think at the request
14 of the Division this case is being extended or
15 continued for two weeks, and that makes it the
16 27th of August, which will still give us time to
17 get the order out.

18 Are there any objections to extension
19 of the case, or concurrence?

20 That case will then be extended or
21 continued until the 27th of August at 9:00, here
22 in Morgan Hall.

23 Hopefully you've all got the
24 information that the Division sent out by now.
25 If not, please contact us and we can fax that

1 information to you.

2 (And the proceedings concluded.)

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1 CERTIFICATE OF REPORTER

2
3 STATE OF NEW MEXICO)
4 COUNTY OF SANTA FE) ss.
5

6 I, Carla Diane Rodriguez, Certified
7 Shorthand Reporter and Notary Public, HEREBY
8 CERTIFY that the foregoing transcript of
9 proceedings before the Oil Conservation
10 Commission was reported by me; that I caused my
11 notes to be transcribed under my personal
12 supervision; and that the foregoing is a true and
13 accurate record of the proceedings.

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

19 WITNESS MY HAND AND SEAL August 24,
20 1992.

21
22
23 
24 CARLA DIANE RODRIGUEZ, RPR
25 CSR No. 4

NEW MEXICO OIL CONSERVATION COMMISSION

COMMISSION HEARING

SANTA FE, NEW MEXICO

Hearing Date AUGUST 27, 1992 Time: 9:00 A.M.

NAME	REPRESENTING	LOCATION
Maurice Trimmer	Bynum	SF
W. Pellerin	Keluhin & Keluhin	Santa Fe
Alan Bohling	Chevron U.S.A.	Midland, TX
Brian Huzzar	Chevron U.S.A.	Midland, TX
Robert Green	Chevron U.S.A.	Midland, TX
Mark Corley	Chevron USA	Midland TX
William F. Day	Exxon, Sun, Texaco, and	Santa Fe
John P. Fuller	Marathon Oil Co.	Midland, TX
Lon Folz	MARATHON OIL CO.	Midland, TX.
Charles A Gray	Oryx Energy Co	Dallas, TX
TOM ADAMS	Oryx Energy Co	Dallas, TX
Rick Hall	Oryx ENERGY Co	Dallas
KRIS RAGHAVAN	Oryx ENERGY Co	DALLAS
Kirk Czior	Phillips	Farmington
Craig Van Horn	Unocal	Farmington
KENT BEERS	MERIDIAN	FARMINGTON
Tommy Nusz	MERIDIAN	FARMINGTON
JB FREER	meridian	Farmington

NEW MEXICO OIL CONSERVATION COMMISSION

COMMISSION HEARINGSANTA FE, NEW MEXICOHearing Date AUGUST 27, 1992 Time: 9:00 A.M.

NAME	REPRESENTING	LOCATION
Bill Hawkins	Amoco	Denver
TR More	Phillips	Farmington
Tom Lowry	Marathon	Midland
Vic Lyon	Gas Co/UM	Santa Fe
Ward Camp	GCNM	Albuquerque
Tom Olle	MOI	MIDLAND
Kevin M. Drile	MOE	MIDLAND
Tom O'Donnell	Meridian	MIDLAND

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24 Certified Shorthand Reporter
25 for the State of New Mexico**ORIGINAL**

A P P E A R A N C E S

FOR THE NEW MEXICO OIL CONSERVATION DIVISION:

ROBERT G. STOVALL, ESQ.

General Counsel
Post Office Box 2088
State Land Office Building
Santa Fe, New Mexico 87504-2088

FOR AMOCO PRODUCTION COMPANY, CHEVRON U.S.A.,
INC., and UNION OIL COMPANY OF CALIFORNIA:

CAMPBELL, CARR, BERGE & SHERIDAN, P.C.

Post Office Box 2208
Santa Fe, New Mexico 87504-2208

BY: **WILLIAM F. CARR, ESQ.**

FOR MERIDIAN OIL, INC., (Midland & Farmington
offices), PHILLIPS PETROLEUM, INC., MARATHON OIL
COMPANY and ORYX ENERGY:

KELLAHIN & KELLAHIN

Post Office Box 2265
Santa Fe, New Mexico 87504-2265

BY: **W. THOMAS KELLAHIN, ESQ.**

FOR GAS COMPANY OF NEW MEXICO:

KELEHER & McLEOD

Post Office Drawer AA
Albuquerque, New Mexico 87103

BY: **H. WARD CAMP, ESQ.**

I N D E X

		Page Number
APPEARANCES:		2
WITNESSES FOR THE OIL CONSERVATION DIVISION:		
1. <u>RONALD H. MERRETT</u>		
Examination by Mr. Stovall		9
Examination by Mr. Kellahin	16, 21,	24
Examination by Commissioner Weiss		17
Examination by Commissioner Carlson		18
Examination by Chairman LeMay		19
EXHIBITS PRESENTED:		
Exhibit No. 4		10
2. <u>LARRY VAN RYAN</u>		
Examination by Mr. Stovall		25
Examination by Mr. Kellahin		46
Examination by Commissioner Carlson		49
Examination by Commissioner Weiss		52
Examination by Chairman LeMay		53
EXHIBITS PRESENTED:		
Exhibit No. 1		34
Exhibit No. 2		30
Exhibit No. 3		36
[BASIN-DAKOTA POOL, BLANCO MESAVERDE, PC SOUTH]		
WITNESS FOR MERIDIAN OIL COMPANY:		
3. <u>JAMES B. FRASER</u>		
Examination by Mr. Kellahin		56
Examination by Mr. Stovall	70,	83
Examination by Mr. Camp		76
Examination by Commissioner Carlson		79
Examination by Commissioner Weiss		82
Examination by Chairman LeMay		82
EXHIBITS PRESENTED:		
Exhibit No. 1		58
Exhibit No. 2		59
Exhibit No. 3		60
Exhibit No. 4		61
Exhibit No. 5		62
Exhibit No. 6		64
Exhibit No. 7		65
Exhibit No. 8		65
Exhibit No. 9		67
Exhibit No. 10		68
Exhibit No. 11		68

WITNESS FOR AMOCO PRODUCTION COMPANY:

4.	<u>J. W. "BILL" HAWKINS</u>	
	Examination by Mr. Carr	86
	Examination by Commissioner Weiss	91
	Examination by Commissioner Carlson	92

EXHIBITS PRESENTED:

Exhibit No. 1	86
---------------	----

WITNESS FOR PHILLIPS PETROLEUM:

5.	<u>KIRK CZIRR</u>	
	Examination by Mr. Kellahin	94
	Examination by Mr. Stovall	105
	Examination by Commissioner Weiss	106
	Examination by Commissioner Carlson	106
	Examination by Mr. Camp	110

EXHIBITS PRESENTED:

Exhibit No. 1	95
Exhibit No. 2	97
Exhibit No. 3	99

WITNESS FOR GAS COMPANY OF NEW MEXICO:

6.	<u>VICTOR T. LYON</u>	
	Examination by Mr. Camp	111
	Examination by Mr. Stovall	116
	Examination by Commissioner Carlson	120
	Examination by Mr. Kellahin	122
	Examination by Mr. Carr	125

EXHIBITS PRESENTED:

Exhibit No. 1	121
---------------	-----

STATEMENTS PRESENTED:

For Gas Company of New Mexico (Mr. Camp)	127
For Union Oil Company (Mr. Carr)	131
For Amoco Production Company (Mr. Kellahin)	133
For the OCD (Mr. Stovall)	134

[JUSTIS GAS POOL]

WITNESS FOR MERIDIAN OIL COMPANY

7.	<u>TOM O'DONNELL</u>	
	Examination by Mr. Kellahin	138
	Examination by Mr. Stovall	152
	Examination by Commissioner Carlson	154
	Examination by Commissioner Weiss	154

1 EXHIBITS PRESENTED:

2	Exhibit No. 1	139
2	Exhibit No. 2	141
	Exhibit No. 3	141
3	Exhibit No. 4	142
	Exhibit No. 5	144
4	Exhibit No. 6	146
	Exhibit No. 7	147
5	Exhibit No. 8	149
	Exhibit No. 9	150
6	Exhibit No. 10	151
	Exhibit No. 11	151
7	Exhibit No. 12	152

8 [BLINEBRY POOL]

WITNESSES FOR MARATHON OIL COMPANY:

9	8. <u>RONALD J. FOLSE</u>	
	Examination by Mr. Kellahin	156
10	Examination by Mr. Stovall	161
	Examination by Chairman Lemay	164

11 EXHIBITS PRESENTED:

12	Exhibit No. 1A	157
	Exhibit No. 2A	158
13	Exhibit No. 3A	159
	Exhibit No. 4A	160

14 9. JOHN P. GILBERT

15	Examination by Mr. Kellahin	169
	Examination by Mr. Stovall	170, 174
16	Examination by Commissioner Carlson	171
	Examination by Chairman Lemay	172

17 [INDIAN BASIN-UPPER PENN POOL]

18 WITNESS FOR CHEVRON U.S.A., INC.:

19	10. <u>M. S. (MARK) CORLEY</u>	
	Examination by Mr. Carr	175
	Examination by Mr. Kellahin	188
20	Examination by Mr. Stovall	196
	Examination by Commissioner Weiss	198
21	Examination by Chairman LeMay	200

22 EXHIBITS PRESENTED:

23	Exhibit No. 1	178
	Exhibit No. 2	179
	Exhibit No. 3	181
24	Exhibit No. 4	185
25	Exhibit No. 5	186

WITNESS FOR MARATHON OIL COMPANY

9. RONALD J. FOLSE

Examination by Mr. Kellahin	202
Examination by Mr. Carr	219
Examination by Mr. Stovall	226, 240
Examination by Commissioner Carlson	235
Examination by Commissioner Weiss	238
Examination by Chairman LeMay	239

EXHIBITS PRESENTED:

Exhibit No. 1	202
Exhibit No. 2	205
Exhibit No. 3	205
Exhibit No. 4	206
Exhibit No. 5	206
Exhibit No. 6	206
Exhibit No. 7	214
Exhibit No. 8	214
Exhibit No. 9	215
Exhibit No. 10	216

WITNESSES FOR ORYX ENERGY COMPANY:

10. TOM ADAMS

Examination by Mr. Kellahin	243
Examination by Commissioner Carlson	247
Examination by Commissioner Weiss	248
Examination by Chairman LeMay	250

11. RICK HALL

Examination by Mr. Kellahin	251
Examination by Commissioner Carlson	262
Examination by Commissioner Weiss	263

EXHIBITS PRESENTED:

Exhibit No. 1	252
Exhibit No. 2	256
Exhibit No. 3	257
Exhibit No. 4	259
Exhibit No. 5	259
Exhibit No. 6	260
Exhibit No. 7	260
Exhibit No. 8	260
Exhibit No. 9	260
Exhibit No. 10	261
Exhibit No. 11	262

Certificate of Reporter	265
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1 CHAIRMAN LEMAY: Good morning. This is
2 the Oil Conservation Commission. My name is Bill
3 LeMay, Chairman. On my left is Commissioner Bill
4 Weiss. On my right, Commissioner Gary Carlson
5 representing the Commissioner of Public Lands.

6 For those of you that think these are
7 microphones up here that project your voice,
8 that's not what that is. That's for the court
9 reporter, so that we can get a recording of your
10 testimony. So, be sure and speak up over there,
11 there's no magnification of your testimony.

12 We shall start by calling the proration
13 case, Case No. 10526. The Oil Conservation
14 Division is calling this hearing on its own
15 motion to accept nominations and other evidence
16 and information to assist in determining October
17 1992 through March 1993 gas allowables for
18 prorated fields in New Mexico.

19 If I can have appearances in Case
20 10526.

21 MR. STOVALL: Robert G. Stovall of
22 Santa Fe on behalf of the Division. I have two
23 witnesses.

24 CHAIRMAN LEMAY: Okay. Additional
25 appearances? Mr. Carr?

1 MR. CARR: May it please the
2 Commission, my name is William F. Carr of the
3 Santa Fe law firm Campbell, Carr, Berge &
4 Sheridan. I would like to enter our appearance
5 on behalf of Amoco Production Company, Chevron,
6 U.S.A., Inc., and Union Oil Company of
7 California.

8 I will present one witness for Amoco.
9 He will present testimony concerning allowables
10 in the San Juan Basin. I will present one
11 witness for Chevron who will be presenting
12 testimony concerning the Indian Basin Upper Penn
13 Gas Pool, and Union Oil Company will make a
14 statement.

15 CHAIRMAN LEMAY: Thank you. Mr.
16 Kellahin.

17 MR. KELLAHIN: Mr. Chairman, I'm Tom
18 Kellahin of the Santa Fe law firm of Kellahin &
19 Kellahin. I'm appearing today on behalf of the
20 following clients: For Meridian Oil, Inc., out
21 of their Midland office, they have a presentation
22 on the Justis Gas pool, and I have one witness.

23 For Meridian Oil, Inc., based in
24 Farmington, I have one witness to make
25 presentations on the Basin Dakota, the

1 Blanco-Mesaverde and then the Blanco Pictured
2 Cliffs South.

3 I have one witness for Phillips
4 Petroleum Company for Farmington, for the Basin
5 Dakota pool.

6 On behalf of Marathon Oil Company, in
7 association with Mr. Thomas Lowry, he and I are
8 presenting two cases for that company, one for
9 the Blinebry pool and the other one for the
10 Indian Basin Upper Penn. We have two witnesses
11 for each of those two cases.

12 And then I'm presenting an engineering
13 witness for Oryx Energy for the Indian Basin
14 Upper Penn pool.

15 CHAIRMAN LEMAY: Thank you. Additional
16 appearances?

17 MR. CAMP: Ward Camp of Keleher and
18 McCloud in Albuquerque, appearing on behalf of
19 the Gas Company of New Mexico. I have one
20 witness.

21 CHAIRMAN LEMAY: Thank you, Mr. Camp.
22 Additional witnesses, presentations in the
23 allowable hearing?

24 Will those of you who will be giving
25 testimony please stand and raise your right

1 hand.

2 [And all witnesses were duly sworn.]

3 CHAIRMAN LEMAY: I might state, also,
4 that we have this room until this morning. We
5 will have to go upstairs in the OCD conference
6 room in the afternoon because it's booked. So
7 after lunch, if we're still continuing, we'll be
8 meeting up there.

9 Also, we're going to change around this
10 morning and have the San Juan Basin hearings
11 first, since I understand the southeast may take
12 a little longer.

13 Okay. We'll start with Mr. Stovall.

14 MR. STOVALL: Call Mr. Ron Merrett.

15 **RONALD H. MERRETT**

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

18 EXAMINATION

19 BY MR. STOVALL:

20 A. Mr. Chairman, my testimony this morning
21 is brief.

22 Q. Might I ask the question before you
23 answer it?

24 A. Hurry up.

25 Q. Would you please state your name.

1 A. My name is Ronald H. Merrett.

2 Q. And your place of residence?

3 A. Albuquerque, New Mexico.

4 Q. How are you employed, Mr. Merrett?

5 A. I am the director of the Office of
6 Interstate Gas Markets, the Natural Gas Marketing
7 Bureau, and I'm also the director of Natural Gas
8 Programs.

9 Q. Would you state the purpose of your
10 brief testimony this morning?

11 A. My brief testimony this morning is to
12 give an overview of natural gas market conditions
13 over the period covered by the hearing; the
14 proration period, that is.

15 Q. Have you prepared an exhibit which will
16 help you to give that explanation in summary?

17 A. Yes. My exhibit is on the screen and
18 the Commission members have black and white
19 copies.

20 Q. For the record, let me state that I've
21 marked the copies as Exhibit No. 4. We have not
22 produced enough copies for everybody in
23 attendance, but if you would wish to have copies
24 after the hearing, we can make those copies
25 available.

1 Again, just for the record so everybody
2 knows what it is, just identify the title of your
3 exhibit.

4 A. The exhibit is New Mexico Natural Gas
5 Production from January of 89 through June of
6 1992, by month.

7 Q. By month you said? I'm sorry.

8 A. Yes.

9 Q. Would you please tell the Commission
10 what this exhibit shows in relation to and how it
11 is useful in their determination of natural gas
12 markets?

13 A. The purpose of this exhibit, and I
14 apologize to the audience for it not being more
15 visible, but the purpose of this exhibit is just
16 generally to show the level of gas production in
17 the state over the past three and a half years,
18 and also to show the seasonal variation in demand
19 for gas from the state.

20 Q. Are there any general trends that you
21 can identify that will be useful?

22 A. Typically, the trends are that the
23 demand is higher from New Mexico in the winter,
24 when weather across the nation is cold, and are
25 lower in the spring and the fall, and there's

1 sometimes peaking in the summer which reflects
2 the summer cooling season.

3 Q. Is there anything further you would
4 like to add with respect to this exhibit?

5 A. Yes, there is. The broken green line
6 at the top of the chart shows a rather different
7 trend than it has in the previous three years.

8 Q. That green line represents what year?

9 A. That green line is 1992. The trend is
10 significantly different because whereas in 1989,
11 which is the blue line at the bottom, there was a
12 declining production from January through June.
13 In 1992, there was increasing production from
14 February through May. This is clearly a
15 different trend than is seen in the three
16 previous years and is clearly not a reflection of
17 weather, as you would assume in the three
18 previous years shown on that chart.

19 Q. Are you prepared to offer any
20 explanation for that, or are you just simply
21 showing it as information?

22 A. I'll offer an explanation which I think
23 is significant, because what it says is that the
24 gas production from New Mexico is, this year,
25 seems to be atypical. It is not reflective of

1 seasonal trends that we have seen in previous
2 years. There are some reasons which we believe
3 account for this. One of them is the rather
4 different weather pattern in the spring of this
5 year, it was slightly warmer than in some parts
6 of the country and slightly colder than others.

7 Where it was colder, we think the
8 utilities were not able to put gas into storage
9 at that time because they had colder temperatures
10 to deal with, particularly in California. Then,
11 as the year went along, as the spring went along,
12 the demand stayed high and the utilities started
13 putting gas back into storage but were holding
14 off because the price was higher than they had
15 expected.

16 As a result, you have an increasing
17 trend through the year. That's one factor.

18 Another factor is that the coal seam
19 gas wells in the San Juan Basin which were
20 drilled last year or earlier this year have now
21 been connected, many of them, and those wells are
22 producing, and there seems to be a market for the
23 gas. So, there is a different trend this year.
24 The seasonal trend is different partly due to
25 weather patterns and partly due to market

1 Let me say that at one time there was a
2 restriction on gas deliveries out of the San Juan
3 Basin, but as of about the spring of 1992, about
4 April, the restrictions disappeared totally.
5 However, there appears to have been no
6 significant increase in conventional gas
7 production since that time, on a month by month
8 comparison with previous years.

9 Q. Summarize for me again the reasons you
10 have for seeing such a difference in the most
11 recent trends in increased production over what
12 it looks to be--late 91 is it?

13 A. Yes. It's almost--it's hard to say
14 specifically, but it's largely due to an increase
15 in production of coal seam gas.

16 MR. KELLAHIN: Thank you, Mr.
17 Chairman.

18 CHAIRMAN LEMAY: Additional questions
19 of the witness? Commissioner Weiss?

20 EXAMINATION

21 BY COMMISSIONER WEISS:

22 Q. How does price influence this increase
23 in the rates?

24 A. Price influences it a great deal. If
25 the prices are high, the production goes up.

1 BY MR. KELLAHIN:

2 Q. Good morning, Mr. Merrett. Does your
3 bureau have the ability to analyze trends by
4 examining only the prorated gas pools of New
5 Mexico?

6 A. We do not.

7 Q. Do you have any opinions with regards
8 to the market demand for any individual prorated
9 pool in New Mexico?

10 A. No.

11 Q. When you look at these overall trends,
12 then, these trends represent gas production from
13 nonprorated and prorated pools, both southeastern
14 and northwestern New Mexico?

15 A. That is correct.

16 Q. Have you examined what the impact has
17 been, if any, on the additional capacity added to
18 the pipeline's ability to move gas out of the San
19 Juan Basin?

20 A. From a brief examination of the
21 production for coal seam gas and what we would
22 otherwise term conventional production, there
23 appears to be no significant change brought about
24 by the addition of the new pipeline capacity out
25 of the San Juan Basin.

1 not prepared to make a prediction?

2 A. I'm not prepared to make a firm
3 prediction, no.

4 Q. Anything further you wish to add to
5 your testimony?

6 A. No. That's all I have in the way of
7 direct comments.

8 Q. What's the source of information to
9 prepare this? Are these official records you
10 used to prepare your production figures?

11 A. Yes. The lines on this chart are
12 derived from the production numbers which are
13 produced by the Oil Conservation Division every
14 month.

15 Q. And this chart was prepared under your
16 supervision?

17 A. Yes, it was.

18 MR. STOVALL: I have nothing further of
19 Mr. Merrett, and I offer Division's Exhibit No. 4
20 for the record.

21 CHAIRMAN LEMAY: Without objection,
22 Exhibit 4 will be entered into the record.

23 Questions of Mr. Merrett? Mr.
24 Kellahin?

25 EXAMINATION

1 conditions.

2 While we're not well equipped to
3 forecast, I would hazard a guess that this year's
4 total production will be 10 percent at least
5 higher than production for the state in 1991.

6 Q. This change of trend that 1992 has
7 shown so far, is there any information that can
8 lead you to make any sort of predictions about a
9 long-term change in the trend, or is this too
10 new?

11 A. The estimating natural gas supply and
12 demand is somewhat subjective. In my view, it's
13 not really a highly developed science. There is
14 clearly evidence that the large surface of
15 natural gas deliverability in the nation or in
16 the continent, perhaps, is being reduced. Some
17 say that the so-called gas bottom has
18 disappeared. Others will not be so bold, but the
19 fact is that there is less surface of
20 deliverability over demand, and we can look to
21 some tightness in supply over the coming winter.

22 Q. In other words, at this point you're
23 not really willing to predict that this trend
24 will continue for an extended period of time? Am
25 I understanding you correctly, or are you just

1 It's very straightforward. And prices have been
2 higher in 1992 than they were the corresponding
3 period in 90 or 91 by about 50 cents an Mcf,
4 actually. So price is a considerable influence.

5 Q. This chart, then, doesn't reflect New
6 Mexico's ability to produce low cost gas?
7 Actually, it costs more now or at least to buy
8 that gas?

9 A. We don't take into consideration in
10 developing this exhibit the cost of production.

11 COMMISSIONER WEISS: Thank you.

12 CHAIRMAN LEMAY: Mr. Carlson?

13 EXAMINATION

14 BY COMMISSIONER CARLSON:

15 Q. Along that same line, Ron, has the
16 price held steady during July and August?

17 A. That's hard to answer. Prices have
18 been fairly stable in the \$1.80, \$1.90 kind of
19 area into the pipeline, and they fluctuate from
20 time to time, from week to week and from month to
21 month, but they have been fairly steady, yes.

22 Q. If I remember correctly, August of last
23 year was when the wellhead price dipped somewhere
24 down below a dollar. So if it's still \$1.80 now,
25 we're looking at substantially higher prices.

1 My point is, we could probably expect
2 this line, if we were to extend it for at least
3 the next couple of months, to stay relatively
4 high compared to last year?

5 A. That's our view, yes.

6 Q. Have you done graphs? If I remember
7 correctly you used to have graphs showing
8 increases in coal seam production in southeast
9 versus northwest?

10 A. Yes, we have those. I didn't bring
11 them today but we do have those graphs
12 available.

13 COMMISSIONER CARLSON: That's all.

14 EXAMINATION

15 BY CHAIRMAN LEMAY:

16 Q. Mr. Merrett, two questions. You made
17 the statement that there is still a surplus of
18 deliverability over demand. Is that true for
19 markets in which New Mexico competes?

20 A. The surface of deliverability in New
21 Mexico was estimated at something over a Bcf when
22 it was done about a year and a half ago, I
23 think. There is no--there is probably no
24 significant change in that excessive
25 deliverability over demand.

1 There is still high demand in New
2 Mexico's traditional markets and we are,
3 presumably, not delivering the additional volumes
4 because of price, price competition from Canada
5 and other places.

6 Q. But is it fair to say that when you
7 stated a surplus of deliverability over demand,
8 that that's true nationwide and also in markets
9 in which New Mexico competes?

10 A. Well, that's the so-called gas bubble,
11 and it's hard to be specific as to New Mexico
12 with regard to the gas bubble. This is a
13 continental commodity, and the supply is
14 throughout the continent and the demand is
15 throughout the continent, so we believe there is
16 still a surface of deliverability within the
17 nation and we believe that that will not change
18 for some while yet.

19 Q. So when you're speaking of market
20 demand, does that demand pull from pools now or
21 pull from operators? pull from states? Where
22 does that demand pull from?

23 A. It's my understanding that most of the
24 companies sell gas. They don't sell gas from a
25 pool or from a well, they sell gas from their gas

1 supply sources. So the individual companies who
2 are selling gas, in many cases do not
3 differentiate between one pool and another.

4 CHAIRMAN LEMAY: Thank you. Additional
5 questions of the witness? Mr. Kellahin?

6 MR. KELLAHIN: A couple of follow-up
7 questions, Mr. Chairman.

8 FURTHER EXAMINATION

9 BY MR. KELLAHIN:

10 Q. With regards to any individual prorated
11 pool in New Mexico, Mr. Merrett, can you tell us
12 whether the total pool deliverability for any of
13 those individual pools is greater than or less
14 than the total market demand for production from
15 those individual pools?

16 A. Well, that's--I'm not quite sure how to
17 answer that question. If there is deliverability
18 from a pool which is in excess of the demand from
19 that pool, then that's part of the gas problem.

20 Q. My question is, can you identify any of
21 the individual prorated pools in New Mexico in
22 which that occurrence exists?

23 A. I personally am not the expert in that
24 area. We have that information in the division,
25 however, and it is available. In fact, our next

1 witness may be able to comment on that better
2 than me.

3 Q. I was curious about your answer to the
4 Chairman when you said the total state
5 deliverability exceeded the total demand for
6 production from the State of New Mexico.

7 A. Well, that's a fact. We have a study
8 which it may have been in evidence before the
9 Commission before, I don't know, but we have a
10 study which demonstrates that very clearly.

11 Q. I was curious whether you can tell us,
12 taking that study, you can identify individual
13 prorated pools that are the subject of this
14 hearing and determine whether, in your opinion,
15 the market demand from production from any of
16 those prorated pools is greater than or less than
17 the pool deliverability?

18 A. In theory I think the answer to that is
19 yes, but you cannot say what the demand is for
20 any gas without knowing what price you're talking
21 about. So that's a reservation I'll make.

22 MR. KELLAHIN: Thank you.

23 CHAIRMAN LEMAY: I've got to follow
24 that up, Mr. Merrett.

25 FURTHER EXAMINATION

1 BY CHAIRMAN LEMAY:

2 Q. I think Counsel stated there was market
3 demand from a pool, stating that as a fact, but I
4 thought your answer to my previous question was
5 that market demand is drawn from operators, not
6 necessarily from pools?

7 A. Yes, if he said that, I didn't pick it
8 up.

9 CHAIRMAN LEMAY: Was that correct,
10 Counselor? Was that the way you stated your
11 question? It's in the record, I think.

12 MR. KELLAHIN: I'm sorry. What was
13 your question?

14 CHAIRMAN LEMAY: I was just clarifying
15 your question. I thought you started out with a
16 supposition that there was market demand from
17 prorated pools, and then went on as accepting
18 that as a factual lead-in to your question?

19 MR. KELLAHIN: If that is how you
20 understood it, then I have miscommunicated with
21 Mr. Chairman. I intended to ask the witness
22 whether or not he could quantify market demand
23 and apply that to an individual prorated pool,
24 and compare that volume of gas to what would be
25 the total deliverability of gas from that

1 prorated pool. Is that a different question?

2 CHAIRMAN LEMAY: Well, I interpreted it
3 differently.

4 MR. KELLAHIN: Perhaps I should try
5 again.

6 FURTHER EXAMINATION

7 BY MR. KELLAHIN:

8 Q. What I want to find out, Mr. Merrett,
9 is that when we look at any individual prorated
10 pool in New Mexico, I want to know if you have an
11 opinion, for example, for the Indian Basin Upper
12 Penn pool, what is the forecasted market demand
13 for production from that pool for the next
14 proration period, and how that compares to the
15 total deliverability of the gas wells that
16 produce gas from that pool?

17 A. Well, I would rather not talk about any
18 specific pool since I don't have the study in
19 front of me of deliverability and I don't recall
20 whether any particular pool has an excessive
21 deliverability or not.

22 What I do know is that for the state as
23 a whole, for all pools, including prorated or
24 nonprorated pools, there's a service of
25 deliverability over current production and it is

1 not possible for me to tell you whether there is
2 a demand for gas from any one pool or any other
3 pool. The demand is for gas available to the
4 corporations and to the operators who operate
5 those pools.

6 MR. KELLAHIN: Thank you.

7 CHAIRMAN LEMAY: Thank you for the
8 clarification. Additional questions of the
9 witness? If not, he may be excused. Thank you.
10 Mr. Stovall, you may call your next
11 witness.

12 MR. STOVALL: I call Mr. Van Ryan.

13 LARRY VAN RYAN

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

16 EXAMINATION

17 BY MR. STOVALL:

18 Q. Would you please state your name and
19 place of residence?

20 A. My name is Larry Van Ryan and I reside
21 in Santa Fe, New Mexico.

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

23 A. I'm the Chief Petroleum Engineer for
24 the Oil Conservation Division.

25 Q. Within that position, do you have

1 responsibility of any sort with respect to gas
2 proration?

3 A. Yes. That's one of the areas of my
4 responsibility.

5 Q. Would you describe that responsibility
6 briefly for the Commission so they can understand
7 your role in the process?

8 A. Under Order R-8170-H, the new proration
9 system was set out, and under the guidelines of
10 that system, it's my responsibility to help
11 determine the historical production from pools
12 based on different proration periods and make
13 recommendations as far as what historical
14 production has been.

15 Q. What is the purpose of your testimony
16 here today?

17 A. My testimony here today is to inform
18 people on how we derive at the figures for the
19 historical production, and to answer any
20 questions that may come from that.

21 Q. Are you also here to make some
22 preliminary recommendations to the Commission for
23 allowables for the prorated gas pools for the
24 coming proration period, starting October 1st?

25 A. Yes. Our recommendations, as I said,

1 are based on historical production from the same
2 period a year ago, and as per the order number I
3 cited earlier, that's the method that we're to
4 use to determine the proration for the prorated
5 pools.

6 MR. STOVALL: I would offer Mr. Van
7 Ryan as an expert petroleum engineer and as the
8 Division's expert in gas proration.

9 CHAIRMAN LEMAY: His qualifications are
10 accepted.

11 Q. Mr. Van Ryan, you have stated that you
12 are prepared to present data with respect to
13 historical productions from the pools and to make
14 some preliminary recommendations regarding
15 allowables for the coming period. How are those
16 recommendations prepared?

17 A. We look at historical production and,
18 for this particular period of time, we have
19 converted over from using the C-111 production
20 information which was provided by the
21 transporters of natural gas, to the C-115 data
22 which is information provided by the individual
23 producers.

24 Q. Let me stop you for a moment and ask
25 you to explain why that transition was made and

1 what has been accomplished by going to C-115s?

2 A. We found substantial errors in the
3 C-111, in that the transporters were not able to
4 give us accurate volumes on a per well basis.

5 Because of that, we reviewed the C-115s
6 which were the operator's input, and we found
7 those to be much more accurate and reliable. So,
8 starting with the October of 1991 historical data
9 we put in the C-115 volumes, and we've come up
10 with what we believe to be a much more accurate
11 scenario of production from October of 91 through
12 March of 92.

13 Q. Is it your opinion that the reason for
14 the change and the reduced reliability of C-111
15 data from transporters is that they are no longer
16 actually marketing the gas, they're merely
17 gathering it and moving it under contract for
18 whoever they're contracted with?

19 A. That has something to do with it. The
20 other problem is that a change in the gas
21 business is many of the pipeline companies use a
22 central delivery point or central point delivery,
23 and they gather gas from a number of wells and
24 only have one meter. They rely on the operators,
25 then, to provide them with an allocation back on

1 a per well basis.

2 Due to the time frame of C-111s being
3 filed, it's not always possible to get that in
4 and I assume that they were sending this
5 information in before they had the full
6 information, and therefore we had unreliable
7 data.

8 Q. And the C-115 data, you say, comes from
9 operators?

10 A. It comes from the operator. It's their
11 report of what happens in actual production from
12 the field, and we felt that was the most reliable
13 source we had.

14 Q. That's on a per well basis?

15 A. Yes, it is.

16 Q. As far as the actual presentation
17 today, is your information presented in the form
18 of exhibits?

19 A. Yes, we prepared exhibits. The first
20 two, Exhibits 1 and 2, are what we sent out in
21 the mailing and notification of the Commission
22 hearing. I would like to point out at this time
23 that they're unchanged as of this point.

24 Q. These exhibits, you referred to
25 Exhibits 1 and 2, and I have additional copies.

1 For those who don't need them now, I'll put them
2 on the corner of the table.

3 These Exhibits 1 and 2 are separated
4 into the two Basins of New Mexico, is that
5 correct?

6 A. Yes. Exhibit 1 refers to the southeast
7 part of the state, and Exhibit No. 2 is the
8 northwest part of the state.

9 Q. Because the northwest portion of the
10 state has fewer pools and also because the
11 exhibit at this time is a little more accurate,
12 let's turn to that first and discuss your
13 recommendations with respect to the northwest and
14 the historical basis for that.

15 A. Okay. Exhibit No. 2 includes the four
16 prorated pools in the San Juan Basin area. All
17 the figures on this sheet are exactly what we
18 derived from our historical data, as I mentioned
19 earlier, and reflect what we show as the C-115
20 production for the pools under Row No. 1.

21 It also shows, as we have recorded,
22 what the number of marginal acres factors are,
23 and with the calculations for our F1 and F2
24 factored. They're done just exactly on the data
25 as we have it historically. There have been no

1 corrections or adjustments made to this.

2 Q. As you go down from Line 1 to Line 10,
3 it's really just a series of mathematical
4 calculations based on the information on Line 1,
5 is that correct?

6 A. Yes, that's correct.

7 Q. So Line 1 is the historical production
8 data?

9 A. For the total pool.

10 Q. And we'll go back to Lines 2 and 3 in a
11 minute, but Line 4 simply is the sum of Lines 1
12 through 3, is that correct?

13 A. Yes, and in this case there have been
14 no adjustments made to them.

15 Q. You've identified the marginal pool
16 allowable which is gas produced from marginal
17 wells?

18 A. That's correct.

19 Q. Subtracted that?

20 A. Right.

21 Q. And you come up with the nonmarginal
22 allowable for all of the nonmarginal wells in the
23 pool, is that correct?

24 A. That's correct.

25 Q. You go on then and perform--now, again,

1 in the northwest it's not simply a straight line
2 relationship of marginal or nonmarginal acreage
3 factors to allowables, is that correct?

4 A. No. In the northwest we prorate on
5 acreage and on the deliverability of the wells.

6 Q. All of the formulas that are shown are
7 not shown here just to show exactly how those
8 figures were calculated? You would know the
9 formulas and then come in and know the
10 percentages to each factor to arrive at the
11 numbers on the last four lines?

12 A. Yes, that's correct.

13 Q. With respect to Lines 2 and 3, total
14 nominations, what type of information would go
15 into that line?

16 A. We asked the producers and the
17 pipelines and anybody that would have information
18 about additional gas market to notify us of what
19 they had as far as nominations. We would take
20 those in prior to this hearing but that's also,
21 as I see it, a good part of what this hearing is
22 about, is to look at what people have as far as
23 information about nominations for gas production.

24 Q. And Line 3, adjustments, what is the
25 purpose of that line?

1 A. Those are left in there to adjust it as
2 deemed necessary, to come up with the correct F1
3 and F2 factors. Those, again, are adjustments
4 that could be derived from this. If we don't
5 receive the nominations, then I would see those
6 adjustments as being derived from this hearing,
7 what the Commission may come up with.

8 Q. In other words, nominations could cause
9 some adjustments to be made or there could be
10 other information which could come out today that
11 would cause adjustments to be made?

12 A. Exactly.

13 Q. Those adjustments, then, would possibly
14 raise or lower the figures that currently exist
15 on Line 4?

16 A. That's correct.

17 Q. And then all of the mathematical
18 calculations below that--and they are simply
19 mathematical calculations? There's no judgment
20 or discretion of the Commission once they reach
21 those lines, is that correct?

22 A. No. These are formulas that are
23 spelled out in the pool rules, and those are
24 applied.

25 Q. So any further testimony in this case

1 with respect to numbers should really only look
2 at Lines 2 and 3 and offer some information going
3 to those lines?

4 A. That's as I see it.

5 Q. When you get down to Lines 9 and 10,
6 are those the F1 and F2 factors that are used to
7 make the mathematical calculation to assign an
8 allowable to any well?

9 A. Yes. Line 9 is the F1 factor which is
10 the acreage allocation, and Line 10 is the F2
11 factor, which is the deliverability allocation.

12 Q. Are you recommending to the Division at
13 this time that the figures on Exhibit 2 be
14 adopted, subject to any additional information
15 which might come out as the result of this
16 hearing, as the allowables for the prorated gas
17 pools in Northwest New Mexico?

18 A. Yes. These are my recommendations
19 based on, as we stated, the historical data, and
20 we would look for adjustments or and information
21 from this hearing to revise those, if needed.

22 Q. Let's turn now to Exhibit No. 1.
23 First, just in general terms, describe what that
24 exhibit is.

25 A. Exhibit No. 1 is very similar to

1 Exhibit 2. We have used historical data to
2 arrive at the average monthly sales of gas for
3 each of the prorated pools, which is on Line 1.
4 It follows the same scenario, except that in the
5 southeast part of the state we only prorate based
6 on acreage, and that's why we have only one
7 monthly acreage allocation factor and we do not
8 have a deliverability factor for the southeast
9 part of the state.

10 Q. This is a much more straightforward
11 calculation, is that correct, once you hit Line
12 4, and then you apply the numbers, the
13 mathematical formulas, and it really doesn't
14 require percentage allocations or anything like
15 that?

16 A. Yes. And under Line 8, in parenthesis,
17 it shows how that's done. This is just Line 6,
18 which is a monthly nonmarginal pool allowable,
19 divided by Line 7, which are the number of
20 nonmarginal acreage factors.

21 Q. Let's go into the specifics, because
22 you are prepared to recommend some changes to
23 this schedule as it is shown, is that correct?

24 A. Yes. There have been changes since we
25 mailed this out. We didn't want to change the

1 whole exhibit as we did last time, but we do
2 have, in Exhibit No. 3, changes to two pools, and
3 those are the Atoka Penn. The change there is on
4 Line 7 where we determined that we have only one
5 nonmarginal acreage factor. That changed another
6 line, which was the monthly marginal pool
7 allowable, and that would be as shown on Exhibit
8 3, that would be 81,189 instead of the 67,001, as
9 shown or written on the Exhibit 1.

10 Q. So, for the Atoka Penn, Lines 1 and 4
11 are the same, but because the number of
12 nonmarginal acreage factors has changed,
13 according to your calculations, all the other
14 line numbers are changed?

15 A. Yes, that's correct. So, the final
16 item we're trying to arrive at, being Line 8 in
17 this case, would be 19,414 Mcf per month per
18 prorated pool--well, or proration unit.

19 Q. And that applies to a single,
20 nonmarginal proration unit, is that correct?

21 A. That's correct.

22 Q. With an acreage factor of 1?

23 A. Of 1.

24 Q. Let's move over to the Buffalo Valley
25 Penn. Do you have any changes in the Buffalo

1 Valley Penn which are not shown on any of your
2 exhibits?

3 A. Yes. We did not get this on Exhibit 3,
4 but as we reviewed the Buffalo Valley Penn Pool,
5 we determined there are no nonmarginal acreage
6 factors at this time in that pool, so that would
7 mean Line 7 should be zero and Line 8 likewise
8 would be zero in this case, or we do not have an
9 F1 factor.

10 Q. And Line 5 goes up to 276,371, is that
11 correct?

12 A. Yes.

13 Q. All nonmarginals?

14 A. Yes.

15 Q. I mean, all marginals?

16 A. Yes.

17 Q. Now, this table also shows the Burton
18 Flat Morrow pool. Is this hearing applicable to
19 that pool?

20 A. No, it's not. That pool was
21 de-prorated, but in our computer system we have
22 not gotten it dropped. That was de-prorated some
23 time ago.

24 Q. That's why there's no figure shown for
25 that pool?

1 A. That's correct.

2 Q. Let's move across to the Indian Basin
3 Upper Penn pool and discuss any changes from the
4 schedule on Exhibit 1, as reflected in the change
5 table on Exhibit 3?

6 A. Yes, we went back and found some errors
7 in our C-115s which changed the total volume of
8 production, the average production for the Indian
9 Basin Upper Penn pool. We extrapolated those
10 down through the rest of the system. We did not
11 find any change in the nonmarginal acreage
12 factors, but because the increased production,
13 which is also reflected in our nonmarginal
14 production, we come up with a higher F1 factor.
15 It will be 178,372, as opposed to the 173,328
16 originally.

17 Q. Again, that's as a result, in this
18 case, of making changes to the original line No.
19 1 average pool sales rather than changing acreage
20 factors or anything of that nature, is that
21 correct?

22 A. Yes. We put it together, and when our
23 system printed out the average production, we
24 went back and looked at the C-115s and we found
25 some obvious errors at that time, and we were

1 able to trace down those errors and we arrived at
2 this higher volume.

3 Q. Now, with respect to Lines 2 and 3 on
4 this exhibit, there utilization was exactly the
5 same as it was on Exhibit No. 2 for the northwest
6 pools, is that correct?

7 A. Yes, it's identical for the southeast
8 part of the state as for the northwest at this
9 point.

10 Q. I need to go back and briefly discuss
11 two pools, the Buffalo Valley Penn and the Indian
12 Basin Morrow South. It appears that with the
13 correction for Buffalo Valley, there's actually
14 no entry for Lines 6, 7 and 8. What's the
15 significance of that?

16 A. This would be very similar to the
17 Buffalo Valley Penn. We have no nonmarginal
18 acreage factors in that pool.

19 Q. We're talking about both pools, right?
20 Indian Basin and Buffalo Valley?

21 A. Yes, but in particular at this point,
22 as you address this Indian Basin Morrow, we have
23 determined there are zero nonmarginal acreage
24 factors and therefore we have no wells to be
25 prorated.

1 Q. In effect, by act of, I guess declining
2 production, these pools, for all practical
3 purposes, have de-prorated themselves? Is that
4 what they're doing, at least for this period?

5 A. A review of the figures shows that that
6 probably is true, but there are some other
7 factors that have entered into it, and it may be
8 that due to some problems in our old system we
9 established too high of an F1 factor in the
10 past. With that higher F1 factor, it simply
11 caused all the wells to be de-prorated.

12 This is due to the same problem that we
13 found in the Buffalo Valley Penn, where we
14 determined that we had zero nonmarginal acreage
15 factors. We were showing some production that
16 was not correct, and this is another reason that
17 we changed from the C-111s to the C-115 forms, to
18 get more accurate data.

19 Q. Do you have any specific
20 recommendations or suggestions, perhaps, to the
21 Commission, with respect to how those two pools
22 should be regulated under the proration system?
23 Should there be some sort of an allowable set for
24 pools to give you guidance as to where they
25 stand, or what's happening there?

1 A. I would suggest that we do set a
2 minimum allowable in the two pools.

3 Q. Minimum or maximum? Minimum would
4 imply that they can produce up to that,
5 guaranteed that the allowable won't be below. By
6 maximum, I mean that would be the allowable above
7 which they should not produce, subject to the
8 rules, of course, of overproduction.

9 A. Okay. In that case we could say it
10 would be a maximum allowable, and I would suggest
11 for the Buffalo Valley Penn that that be
12 somewhere in the order of a,000 Mcf a day, which
13 would make the F1 around 30,000.

14 In the Indian Basin Morrow South,
15 probably that factor should be up a little higher
16 than that, probably in the order of 1,200 Mcf a
17 day. And that, looking at historical production
18 for this same period of time, will let most of
19 the wells produce without being prorated, but it
20 would give us a chance to still track these pools
21 and these wells and see what the capability was.

22 It would also give the operators in
23 there an opportunity to do additional work. It
24 wouldn't hamper their--it wouldn't knock away
25 their incentive to do additional work in the

1 pools.

2 Q. If I understand you correctly, you're
3 not suggesting that these pools be taken out of
4 the system, but rather an allowable be
5 established for those pools based upon some
6 less-scientific, less-calculated, historical
7 evaluation?

8 A. Exactly. I think we still need to
9 track the pools because, as I said, some of the
10 reasons that these show zero factors and are down
11 to this point may be errors that occurred in the
12 past. I think we ought to track them for a
13 while. It may be something that these pools
14 should be de-prorated.

15 Q. And the allowable you would recommend
16 is one that would be high enough to encourage
17 continued operation, development, reworking,
18 whatever the case, you're saying?

19 A. Yes.

20 Q. If you can get the production back up,
21 we want to let you produce it?

22 A. That's correct.

23 Q. We're not going to abandon proration
24 completely in these pools?

25 A. Not at this time.

1 Q. Do you have any other comments you
2 would like to make with respect to the Division's
3 exhibits or recommendations?

4 A. The only comment is that I feel we've
5 got a much better system now that we've gone to
6 the C-115s. I would like to point out that now
7 we don't have a third party responsible for
8 reporting production which affects the
9 producers.

10 At this point we're asking the
11 producers to present the information, so our
12 results here rely exactly on what the producers
13 report to us. So, if they have a problem with
14 the system, they are the source of the
15 information.

16 Q. In anticipation of questions which I'm
17 sure Mr. Kellahin will want to explore further
18 with you, have you made any examination of
19 production trends and levels from the prorated
20 pools, compared to total statewide production
21 trends as shown by Mr. Merrett this morning?

22 A. I have looked at the northwest part of
23 the state and the information I have from the
24 four prorated pools up there shows about the same
25 situation as he shows.

1 In April and May of this year, as
2 opposed to a year ago, our production from the
3 four prorated pools was up as high as 25 to 40
4 percent, depending on the pool, over a year ago,
5 so we have seen quite an increase in production
6 in April and May of this year.

7 In the southeast part of the state, we
8 have also not done it on a detailed basis because
9 of all the pools, but we have seen substantially
10 higher volumes being produced in the southeast
11 part of the state.

12 Q. Are you prepared to express an opinion
13 as to whether the prorated pools are being denied
14 access to the opportunity to produce, as a result
15 of proration, being unable to compete for market,
16 in your opinion?

17 A. I don't think they're unable to
18 complete. The price is the same, and the only
19 restriction may be that we don't allow them to
20 produce unrestricted. I don't think that pulls
21 them out of the market necessarily. We're here
22 to determine what market demand is, and that's
23 what we're trying to find out.

24 Q. We're looking at market demand on a
25 pool-specific basis, as opposed to a statewide

1 basis, as Mr. Merrett testified?

2 A. Yes, that's correct.

3 Q. And, of course, the sticky issue always
4 is price, and that does affect market demand as
5 Mr. Merrett testified?

6 A. I would believe it does. If it's a
7 nickel an Mcf, there's one market, and if it's \$5
8 an Mcf, there's another market.

9 Q. Do you have anything further you wish
10 to add at this point?

11 A. No, I believe that's it.

12 MR. STOVALL: I will turn you over to
13 the wolves, Mr. Van Ryan.

14 CHAIRMAN LEMAY: Questions of Mr. Van
15 Ryan?

16 MR. KELLAHIN: I have questions. I
17 brought my wolf with me.

18 CHAIRMAN LEMAY: Do you want to howl
19 for Mr. Kellahin, Mr. Carr?

20 EXAMINATION

21 BY MR. KELLAHIN:

22 Q. Good morning, Mr. Van Ryan.

23 A. Good morning, Tom.

24 Q. In providing information to the
25 industry, the Division prepared a spreadsheet

1 showing, over time, the production reported to
2 the Division, and you provided that to us. Do
3 you have one of those?

4 A. I have a copy of that with me, yes.
5 You're talking about what was attached with the
6 mail-out on notification?

7 Q. Yes, sir. It was attached to the
8 docket sheet. There was a mail-out which had a
9 comparison of monthly averages, and it went back
10 for a couple of seasons, and it was done for each
11 of the prorated pools.

12 A. Yes, I have a copy of that.

13 Q. For the purposes of my questions, I
14 would like to examine with you the Buffalo Valley
15 Penn pool. The information on Exhibit 1 of
16 today's hearing, and identified as the
17 spreadsheet for the southeastern New Mexico
18 pools, if you look at Buffalo Valley, and go down
19 to Line 4, it says monthly pool allowable and
20 there's 276,000 plus?

21 A. Yes.

22 Q. Does that column come from your
23 tabulation of the sales information received from
24 the C-115 for the operators for the period of
25 October 91 through March of 92?

1 A. Yes.

2 Q. When you factor that in, the actual
3 production as reported on those numbers, does
4 that fact cause the allowables to be set in such
5 a way that none of the nonmarginal wells are
6 restricted?

7 MR. STOVALL: Clarify that. I think he
8 has stated that with the adjustments there are no
9 nonmarginal wells in the pool.

10 Q. That's why I'm trying to understand how
11 he got to no nonmarginal wells in that pool.

12 A. Well, none of the wells would produce
13 what we had established in the past as the F1
14 factor or their allowable.

15 Q. If you're using the actual production,
16 the 276,000, will that run through the
17 calculation so that there are no nonmarginal
18 wells in the pool?

19 A. In this particular case it did. You
20 can't just use the flat factor 276,000. You have
21 to look back at the wells and how they would be
22 classified to determine how that works out. It's
23 not a one-to-one relationship.

24 Q. Using that as an example in that
25 volume, representing the sales for that period,

1 we find a pool where the system self-adjusts so
2 that the wells are producing at capacity under
3 the proration system?

4 A. That's correct.

5 Q. They're doing so because that is the
6 end result of the calculation when you produce
7 that volume of gas from that pool?

8 A. Given the nonmarginal wells, that's how
9 that factor comes out, and that's in addition to
10 the total volume here.

11 Q. Would that be an example where market
12 demand for production from a prorated pool
13 exceeded the deliverability?

14 A. That's not necessarily the case, no.

15 Q. Why would that not be the case?

16 A. You could, due to the F1 factor or due
17 to the ability of the wells to produce in there,
18 you could have the wells become marginal wells;
19 therefore, you would no longer have nonmarginal
20 wells. That doesn't mean that the market in the
21 pool have matched each other, necessarily. It
22 just means there has been an error in the system
23 where you've got the nonmarginal wells now.

24 Q. When we look at historical past
25 production, then that's not the equivalent of

1 market demand for that pool?

2 A. It's all we have for market demand at
3 that period of time, yes.

4 Q. So, to forecast market demand for this
5 next proration period, you're seeking operators'
6 nomination to go into Line 2 of the spreadsheet
7 by which then the Commission can make the
8 adjustments in Line 3 of the spreadsheet and get
9 us allowables, then, that have now finally
10 incorporated the nominations and market demand?

11 A. Yes.

12 MR. KELLAHIN: No further questions.

13 CHAIRMAN LEMAY: Additional questions?
14 Commissioner Carlson?

15 EXAMINATION

16 BY COMMISSIONER CARLSON:

17 Q. It has seemed in the past, Larry,
18 you've always recommended adjustments, yet you
19 haven't at all this time. Can you explain why
20 not?

21 A. In the last hearing, I believe, in lieu
22 of making adjustments, we wanted the facts just
23 to stand for themselves. This is as the
24 historical situation was and that's what we hope
25 to present here. We don't know the market and we

1 don't have a real feel for it. Therefore, I
2 thought it was best to present historical data,
3 obtain the information and input here from the
4 producers, and go from that standpoint.

5 Q. But given what Ron has told us, as far
6 as the increased demand in production and an
7 increased price this year compared to last, you
8 certainly expect there to be a substantial
9 adjustment?

10 A. That's what we're expecting, yes.

11 Q. If I look at the total state production
12 by month, say 80, 85 million Mcf, and I compare
13 that to the total prorated production, which
14 roughly might be maybe 10 to 12 million Mcf, we
15 are prorating a very small amount of total
16 production, is that correct?

17 A. It boils down that the prorated pools
18 produce about 40 percent of the gas well gas in
19 the state.

20 Q. And then the nonmarginal production
21 from those prorated pools is even substantially
22 less?

23 A. Is even substantially lower than that,
24 yes.

25 Q. Is that down from historical trends

1 from the past? In other words, 10 years ago I
2 assume we prorated a lot larger percent of the
3 production in this state than we do now?

4 A. Yes. I'm not exactly sure, but the
5 trend is correct, we are prorating fewer and
6 fewer wells and, therefore, the prorated gas is
7 less than it was.

8 One of the factors that enters into
9 that is the Basin Fruitland Coal is now the
10 largest single gas pool in the state and it's a
11 nonprorated pool, so we have quite a bit of
12 production that's come in from that one pool
13 which would definitely make the trend go down.

14 Q. How do you get to fractional proration
15 units within a pool? Like 5.49, where does the
16 ".49" come from?

17 A. In the event that, say, a proration
18 unit is 320 acres, if it is over that, then we
19 give it the fractional amount over the 320 for
20 the proration unit. In other words, it could be
21 1.06 or 1.05. Likewise, if it's less than the
22 full proration unit of 320 acres, if it were only
23 300 acres, then we would knock it down to the .86
24 or .75. When you add those all together, you
25 come up with these fractional figures.

1 COMMISSIONER CARLSON: Okay, fine.

2 Thank you.

3 CHAIRMAN LEMAY: Commissioner Weiss?

4 COMMISSIONER WEISS: I have another
5 question on the price of gas.

6 EXAMINATION

7 BY COMMISSIONER WEISS:

8 Q. You mentioned, say, in the San Juan
9 Basin, the state producing or the operators up
10 there producing 40 percent more than this time
11 last year?

12 A. There were some pools that high. The
13 average is probably between 25 and 40 percent for
14 April and May.

15 Q. For that gas to be produced, I guess
16 whoever the purchasers are, are buying it from
17 New Mexico rather than someplace else. Where is
18 that someplace else?

19 A. Any other supplier, I would say.

20 Q. Again, is New Mexico gas cheaper than
21 any other supplier?

22 A. I guess you would have to say it was.
23 I assume all the purchasers are buying least cost
24 gas. That may not be a true assumption, but in
25 most cases they probably are.

1 COMMISSIONER WEISS: Thank you.

2 CHAIRMAN LEMAY: One question, Mr. Van
3 Ryan.

4 EXAMINATION

5 BY CHAIRMAN LEMAY:

6 Q. We've concentrated on market demand.
7 For purposes of prorationing, is correlative
8 rights also another issue in prorating pools, to
9 protect correlative rights?

10 A. Yes, protecting correlative rights is
11 one of our other statutory items. Normally those
12 are addressed in the pool rules whereby we set up
13 the means of prorationing. As in the northwest,
14 where we decide to use acreage factors plus
15 deliverability factors to determine the proration
16 up there, those take into account protection of
17 correlative rights. Likewise, in the southeast
18 part of the state, it has been determined that
19 acreage factor alone is sufficient.

20 CHAIRMAN LEMAY: Thank you. Additional
21 questions of the witness?

22 MR. STOVALL: I have a follow-up
23 question, if everybody's finished.

24 CHAIRMAN LEMAY: Mr. Stovall.

25

EXAMINATION

BY MR. STOVALL:

Q. With respect to the question Commissioner Weiss asked you, he was talking about--kind of led you to a conclusion that if New Mexico gas is being taken in preference to some other gas it's because the price is lower. Is that your understanding of what you were saying?

A. That's as I understand the situation, and then we would have to assume everybody is buying least cost gas. That may not be true, as I said.

Q. The first thing is that when you answered that question, it was simply based upon an understanding of fundamental economics that presumably you will buy the least cost product?

A. Right.

Q. Now, as far as the actual cost, it is not just the price at the wellhead, is it? Are there other factors that might make New Mexico's gas least cost and give it a competitive advantage, hopefully?

A. Yes. There are other costs attached to New Mexico gas; transportation cost and maybe

1 even brokerage cost.

2 Q. So it could be not necessarily least
3 cost at the wellhead, what you're really looking
4 at is least cost at the user end of the pipe?

5 A. Yes, least cost to the consumer.

6 MR. STOVALL: Nothing further.

7 CHAIRMAN LEMAY: Additional questions?
8 You may be excused.

9 Why don't we start the San Juan
10 triangle, and go with Mr. Carr.

11 MR. CARR: May it please the
12 Commission, I think we would make a better
13 presentation if Meridian was the first company to
14 present testimony.

15 CHAIRMAN LEMAY: Okay. Well, you all
16 figure that one out and bring your people up.
17 What we want to do is keep your witnesses--I'm
18 not going to have all your witnesses, just the
19 witnesses in the northwest. Mr. Kellahin, just
20 the witnesses in the northwest. And then we'll
21 let those witnesses go and concentrate on the
22 southeast.

23 Mr. Kellahin.

24 MR. KELLAHIN: Mr. Carr and I have
25 conferred and we believe an efficient

1 presentation can be made if we go ahead and
2 present Meridian's proposals with regard to the
3 prorated pools in the San Juan Basin.

4 CHAIRMAN LEMAY: Fine.

5 **JAMES B. FRASER**

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

8 EXAMINATION

9 BY MR. KELLAHIN:

10 Q. All right, sir. Would you please state
11 your name and occupation?

12 A. My name is James Fraser. I'm currently
13 the regional production manager for Meridian Oil,
14 Inc., in Farmington, New Mexico.

15 Q. Mr. Fraser, on prior occasions have you
16 testified before the Division?

17 A. No, sir, I haven't.

18 Q. Summarize for us your education.

19 A. I've got a bachelor's of science degree
20 in petroleum engineering from Montana Tech, and a
21 master's in business administration from Regis
22 College.

23 Q. In what years did you obtain those
24 degrees?

25 A. The bachelor's degree was in 1975, the

1 master's degree was in 1991.

2 Q. Summarize for us your employment
3 experience with regards to prorated pools, San
4 Juan Basin?

5 A. I have been in the Rocky Mountain
6 Region for approximately 17 years, in numerous
7 states, and I've resided in New Mexico for almost
8 two years.

9 Q. Describe for us specifically what you
10 do for Meridian Oil, Inc.

11 A. As regional production manager, I
12 manage the daily production of the region's
13 assets, which, of course, entails proration.
14 That's conventional reservoirs.

15 Q. Have you assumed the responsibilities
16 formerly performed for your company by Mr. Louis
17 Jones?

18 A. I have until the 31st of the month.

19 Q. Where is Louis going?

20 A. He's in Houston.

21 Q. So you've undertaken filling his slot
22 and are going to participate on behalf of your
23 company with regards to nominations and
24 recommendations for the prorated pools in the San
25 Juan Basin of New Mexico?

1 A. That's correct.

2 MR. KELLAHIN: We tender Mr. Fraser as
3 an expert witness.

4 CHAIRMAN LEMAY: His qualifications are
5 acceptable.

6 Q. Let me ask you, sir, to turn to what is
7 marked as Meridian Exhibit No. 1. Would you
8 identify and describe that for us?

9 A. Yes, sir, I will. This is the
10 Northwest New Mexico Pool Allowables for the
11 upcoming winter period of October of 92 through
12 March of 93. I have the three major pools there,
13 the Basin Dakota, the Blanco Mesaverde and the
14 Blanco P.C. South.

15 What's listed there is the current
16 recommendation which were the numbers I think Mr.
17 Van Ryan has gone over, and in the following line
18 there I have an adjustment by pool that we would
19 recommend, and then the summary line there would
20 be the monthly pool allowable, which is simply
21 the addition of the first two lines.

22 Q. Those represent the nominations and
23 requested adjustments on behalf of your company?

24 A. Yes, sir, it does. As you can see, the
25 Basin Dakota we're requesting an adjustment of 2

1 Bcf a month, in the Blanco Mesaverde, 3 Bcf a
2 month, and in the P.C. South, 150,000 per month.

3 Q. Have you made your proposal known to
4 other operators in the Basin?

5 A. Yes, sir, we have. We have had several
6 discussions with some of the other major
7 operators in the Basin.

8 Q. Do you believe you're in substantial
9 agreement and consistent with what the level of
10 allowables the other operators are seeking for
11 these pools?

12 A. Yes, sir, I believe we are.

13 Q. Let's turn to the second exhibit,
14 Exhibit No. 2. Describe for us the reasons
15 you're seeking this increased adjustment in the
16 allowable.

17 A. Well, I think there has been a dramatic
18 change in the San Juan Basin this spring, and
19 that is due to the increased pipeline capacity
20 that we have out of the San Juan Basin. As I
21 think everyone's aware, both El Paso Natural Gas
22 and Transwestern have installed additional
23 facilities in the Basin which have increased the
24 take-away capacity of the Basin quite
25 significantly.

1 The other factor that has played a part
2 in the increased New Mexico production has been
3 an increase in the firming of natural gas
4 prices. I think several people have asked, you
5 know, what effect does price have on production,
6 and there's no doubt, as price goes up,
7 production has seemed to have gone up, also.

8 Q. Let's turn to Exhibit No. 3. Identify
9 and describe that for me.

10 A. This is a plot, a monthly production on
11 a Bcf-per-month basis for the Dakota Pool. It
12 starts in January of 1991 and continues through
13 July of 1992. The solid black line is the actual
14 production statistics which are derived from the
15 New Mexico monthly statistical report. The
16 square I have that represents July 1992
17 production is Meridian's estimate of what the
18 pool production was in July of this year.

19 Q. This is a plot of the Dakota prorated
20 gas?

21 A. Yes, sir, that's correct.

22 Q. What's your conclusion?

23 A. Production has gone up significantly in
24 the last few months, and I have some further
25 exhibits that quantify that.

1 Q. What do you forecast to be the
2 production trend in the immediate future
3 particularly with regards to the next proration
4 period that we're making adjustments for?

5 A. I believe it will be significantly
6 higher than last year's same time frame. For
7 instance, on this chart, you can see for the
8 October to March time frame there, for October of
9 91 through March of 92, the average production
10 was in about the 7 to 7-and-a-half Bcf per month
11 range. I think that will be significantly higher
12 this coming winter.

13 Q. Let's turn to the Mesaverde and have
14 you identify and describe that display.

15 A. This is the same plot that I just spoke
16 about on the Dakota, although this is for the
17 Mesaverde production. Once again, the solid
18 black line is the actual production,
19 Bcf-per-month basis, from January of 91 through
20 May of 92. And then I have Meridian's projection
21 for the July of 1992 time frame.

22 Once again, as you can see, production
23 is up significantly from last year.

24 Q. With regards to this Exhibit 4 and the
25 previous Exhibit No. 3, what is the explanation

1 for the additional production and the trends that
2 show increases in production from those two
3 pools?

4 A. I believe it's two-fold; first, of
5 course, being expansions out of the Basin. It
6 allows more production because the field
7 gathering pressures have decreased in the last
8 several months, thereby production has been
9 increased. So the price of gas has gone up from
10 last year and it seemed to stabilize somewhat,
11 and I think that makes producers more comfortable
12 with producing their gas at that price.

13 Q. Turn now to Exhibit No. 5. Would you
14 identify and describe that display?

15 A. This is a comparison for the last four
16 months of 92, April, May, June and July, compared
17 to the same dates in 1991, April through July.
18 This exhibit is for the Basin Dakota.

19 What I've listed is the monthly
20 production in Bcf per month and compared 1992 to
21 1991 and then shown a difference of how
22 production has increased. That's actual
23 production in 1992 for April and May, and June
24 and July has been estimated, and that has been
25 estimated on the basis of Meridian's internal

1 production for the pool as relates to Meridian's
2 historic percentage of the Dakota Pool
3 production.

4 As you can see in June and July, I've
5 estimated 8.1 Bcf in 1992, which is up 42 percent
6 from last year at the same time frame. In July
7 it's up almost double, from 5 Bcf to what I
8 estimate as 9.4 Bcf.

9 Q. Describe for us how you've made the
10 estimates.

11 A. I took the Meridian internal estimate
12 from our internal accounting system as to what we
13 think Meridian's production is for June and July,
14 divided that by the historic ratio of what
15 Meridian's production has been for the total
16 pool, which has been fairly consistent for the
17 last 18 months, and come up with the pool
18 production.

19 Q. If we use the Division's preliminary
20 schedule without the adjustments, which simply
21 repeats the historical production for the last
22 winter proration period, and use that to set
23 allowables for these prorated pools, will we have
24 allowables high enough in order to meet the
25 forecasted needs for market demand?

1 A. No, sir, I don't believe we will.

2 Q. Let's turn to Exhibit 6. Would you
3 identify and describe that display?

4 A. This is the Blanco Mesaverde Pool
5 production in Bcf per month, for the same time
6 frame as I just went over on the Dakota; once
7 again, for April, May, June and July time periods
8 for 91 and 92 and a comparison between the two.

9 I derived the June and July estimates
10 by once again using the same method I did for the
11 Dakota, took Meridian's internal estimate of our
12 production for those two months, divided that by
13 Meridian's historic percentage of the entire pool
14 production, to arrive at the total pool
15 production.

16 As you can see, similar to the Dakota,
17 production is up significantly in the last few
18 months compared to 91. As a matter of fact, in
19 July I estimate the total pool production to be
20 16 Bcf as compared to 1991's value of 10.8
21 percent.

22 The bottom line there shows an average
23 of those four months, which is simply just an
24 arithmetic average. You can see for that same
25 four-month period we're up approximately 17

1 percent in the Mesaverde production from last
2 year at this same time frame.

3 Q. Let's turn now to Exhibit 7 on the
4 Blanco Pictured Cliffs South Pool. Identify and
5 describe that.

6 A. This is the exact same statistics for
7 the Blanco P.C. South Pool, once again comparing
8 92 to 91 for the April through July time frame.
9 And you can see in April and May the production
10 was up about 20 percent, in 1992, and based on
11 our preliminary numbers, June and July will be up
12 significantly more from last year.

13 The average number there shows the
14 four-month average of a 39 percent increase from
15 last year, from slightly under 1 Bcf per month to
16 about 1.25 Bcf per month.

17 Q. Turn with me to Exhibit No. 8. What is
18 the purpose of this display?

19 A. This just shows kind of a historic run
20 down of what the allowables have been by pool in
21 the winter time frame in the last five years.

22 As you can see, I have the three major
23 pools, the Mesaverde, the Dakota, and the P.C.
24 across the page, and then down the page I have
25 the October through March time frame for the last

1 five years, and then I also have an average of
2 the last five years listed.

3 For the Blanco Mesaverde, the average
4 allowable has been 15.182 Bcf a month, the Dakota
5 9.59 Bcf a month, and the Blanco P.C. South 1.339
6 Bcf a month.

7 The next line shows the October 92 to
8 March 93 proposed that the Commission has
9 published.

10 Q. This is the preliminary schedule from
11 the Division?

12 A. Exactly.

13 Q. It has not yet been adjusted to take
14 into consideration market demand?

15 A. That's correct. And that's why I'm
16 here today, to give operator input as to what we
17 think that demand is. You can see, if the
18 allowable was set at what the original proposal
19 was for the Mesaverde, for example, 12.265 Bcf a
20 month, it would be 19 percent less than the
21 average over the last five years, and 13 percent
22 less than last year.

23 The next line is my recommendation for
24 that October of 92 to March 93 time frame and
25 allowable, and you can see it's at 15.265, which

1 we've already gone through, and that's
2 essentially the same as what the average has been
3 for the last five years.

4 Similarly, on the Dakota, you can see
5 the average for the last five years is 9.59. The
6 original proposal, without adjustments, is 7.145,
7 and that is 25 percent below the average for the
8 five-year time frame. Our recommendation is to
9 go to a 9.145, which puts us about 5 percent
10 below the historic average for the Dakota.

11 Similarly, on the Blanco P.C. South,
12 the original proposed is 1.06 Bcf a month.
13 That's 21 percent less than the five-year average
14 for the same time frame. Our proposal is 1.211
15 Bcf per month, which is about 10 percent below
16 the historic average. This is simply to show
17 what the allowables have been, by pool, in the
18 last five years.

19 Q. Turn now to Exhibit 9 and identify and
20 describe that for us.

21 A. This is just a graphical display of the
22 statistics I just reviewed. This is for the
23 Basin Dakota. The vertical bars are the
24 allowable for the time frame we just reviewed.
25 On the far right-hand side you can see what I've

1 labeled October 1992.

2 The first bar there is 7.145, which is
3 the original recommendation. The 9.145,
4 identified as October 1992 proposed, is what we
5 would recommend. And you can see the historical
6 relationship between what we're proposing versus
7 the five-year average. The horizontal line says
8 average equals 9.590, is simply a straight line
9 representing an average of those five years.

10 Q. And Exhibit 10?

11 A. Same exact representation of the
12 previous data. I've put the average for the last
13 five years as a horizontal line as 15.182, versus
14 what we proposed as 15.265 Bcf a month, and you
15 can see we're very, very close to the five-year
16 average.

17 Q. And then, finally, Exhibit 11?

18 A. Once again, a similar presentation that
19 shows our proposal of 1.211 being slightly below
20 the five-year average of 1.339 Bcf per month.

21 Q. Give us some information from your
22 perspective on marketing trends and strategies in
23 the Basin as it now affects that production.

24 A. Well, I think price, of course, is the
25 key factor there. As everybody is aware, the

1 price has increased over the last few months and,
2 of course, my crystal ball isn't any better for
3 future prices than anybody else's, but the
4 natural gas price futures have shown an upward
5 trend in the next six months, so I would believe
6 that prices should stay relatively the same as
7 what they are now, if not increasing a little
8 more, and given with that price and the take-away
9 capacity of the San Juan Basin, I believe
10 producers will be trying to market gas similar to
11 what we've produced in the last couple of months.

12 Q. Let's talk about general marketing
13 strategies. A few years ago it was a common
14 device for operators in the San Juan Basin to
15 overproduce their wells in the winter,
16 underproduce them in the summer, and bank that
17 allowable, if you will, during the summer and use
18 it, then, in the wintertime. There was this
19 seasonal fluctuation to satisfy a high priced
20 winter market. Do you see that in existence now
21 in the San Juan Basin?

22 A. No, sir, I don't. The statistics I've
23 shown for the June and July period of this year
24 show that we've had higher production this year
25 than we did last year in those prorated pools.

1 Q. Do you see any instances where if your
2 allowable levels are approved, there will be
3 operators that will choose not to market their
4 gas and accrue substantial underproduction for
5 their nonmarginal wells that may be subject to
6 cancellation?

7 A. Oh, I suppose they could, but with
8 today's prices, I could only represent Meridian's
9 standpoint. We will not do that. We will
10 produce to the allowables based on the well's
11 deliverability.

12 Q. You have both marginal and nonmarginal
13 wells in all these prorated pools?

14 A. Yes, sir, we do.

15 MR. KELLAHIN: That concludes my
16 examination of Mr. Fraser. We move the
17 introduction of Meridian's Exhibits 1 through
18 11.

19 CHAIRMAN LEMAY: Without objection,
20 Exhibits 1 through 11 will be admitted into the
21 records. Questions of Mr. Fraser, Mr. Stovall?

22 MR. STOVALL: Yes.

23 EXAMINATION

24 BY MR. STOVALL:

25 Q. I have just a couple, just by way of

1 clarification and understanding.

2 The question is generally applicable to
3 all three pools that you're recommending
4 adjustments for. I would kind of like to, if
5 you're going to make an adjustment, ask you to
6 justify it and give us a basis for it.

7 In each of the pools you've talked
8 about for the periods that you've shown on your
9 charts, in the past the Division has established
10 an allowable which was higher than the previous
11 light year's production. Do you follow what I'm
12 saying?

13 For example, let's do Blanco
14 Mesaverde. That's the big volume pool. In
15 October 89 through March 90, the pool sales were
16 just about 15 million Mcf, 14.9. I'm going to
17 hand you the source of information so you can see
18 what I'm talking about, and I think you can track
19 it with yours.

20 This is the information that was sent
21 out by the Division. We have not made it an
22 exhibit in this case, but it was sent out with
23 the docket, which has some historical tracking of
24 production and allowables. I'm looking in the
25 Blanco Mesaverde column, October 89 through March

1 90. Do you see where I am?

2 A. Yes, sir.

3 Q. Okay. Production was 14.9 million Mcf?

4 A. Yes, sir.

5 Q. The allowable for the following like
6 period was set at 15.7, which was higher than the
7 previous year's sales, so there was an upward
8 adjustment made. Are we together so far?

9 A. Yes, sir.

10 Q. The actual production, however, was
11 14.1 million, which was quite a bit under the
12 allowable and even under the previous period's
13 sales.

14 Take the same thing down, take that
15 14.1, the October 91 through March 92 allowable,
16 which was set at 14.168 as opposed to 14.122,
17 previous period's production, so it was a slight
18 increase, and the actual pool sales were 12.265
19 for that period. So again, considerably under
20 the total pool allowable.

21 Now, what the Division has done this
22 time is come down to the period, the last on the
23 table, for the preliminary recommendation is
24 12.265 without adjustment at this time, and what
25 you are asking for or what Meridian is requesting

1 is an allowable which would be 3 million Mcf
2 higher than that, just slightly under the 90-91
3 allowable, yet sales and production haven't
4 demonstrated a need for an allowable at that
5 level.

6 I guess I'm asking you to amplify a
7 little bit your basis for going up. The same
8 analysis is applicable to all three pools, so I
9 think your analysis can apply in general to the
10 three.

11 A. To answer your question, sir, I'm not
12 exactly sure how the allowables were set in the
13 earlier years. My understanding is that for this
14 latest one, the actual production for the last
15 time frame is now this year's allowable, and then
16 the Division is looking for recommendations from
17 the producers to say what is our future
18 production and demand so we can make adjustments
19 to that so we can arrive at the allowable.

20 I believe, as I stated earlier, that
21 the pipeline expansions out of the Basin have
22 made a significance difference in the production
23 that these pools can have. For instance, earlier
24 in the year, last year, for instance, the
25 gathering pressure out in the field was

1 approximately 400 psi, with the expansions out of
2 the Basin. The current pressures are in the 300
3 psi range. That has allowed for a significant
4 increase in production on these conventional
5 reservoirs.

6 I think that's why production is
7 increasing dramatically the last few months. And
8 due to that increase in production, we're saying
9 that the demand must be there. There must be a
10 demand because we're producing more and selling
11 more. So there must be a demand there. If
12 that's the case, we would like the allowables
13 increased so that we can meet that demand.

14 Q. I don't disagree with that. I guess my
15 question is, how did you arrive at, again, using
16 the Blanco Mesaverde as an example, where did the
17 number "3 million" come from as opposed to 2.5
18 million or 3.5 million?

19 A. Well, I looked at the statistics that
20 I've already reviewed, and I saw that the last
21 four-month average production was 14.9 Bcf per
22 month, which is slightly less than the 3 Bcf
23 adjustment originally forecast by the Division.
24 The 3 Bcf, that's exactly what was used last
25 time, the last six-month proration increase, for

1 an adjustment for these pools. It's the exact
2 same number, and it fit pretty well with what
3 I've seen as an increase in production.

4 Q. So, in other words, this is your best
5 scientific way based upon the best predictions
6 you can make with some historical support? Is
7 that what you're telling me?

8 A. That's exactly right, sir. And the 3
9 Bcf, that was the number for the Mesaverde that
10 the Division accepted six months ago, and it
11 seems like if we add that to the original
12 allowable of 12.2, it's a fairly good fit for
13 what we see as the production out of the pool for
14 the next six months.

15 Q. What you're suggesting then is that the
16 trend which I've just identified and gone through
17 the table with you on, is reversing itself, and
18 you anticipate that you won't see as much
19 underproduction at those levels?

20 A. Yes, sir, I would say that's true.

21 MR. STOVALL: Nothing further on that.

22 CHAIRMAN LEMAY: Additional questions?

23 Yes, sir.

24 MR. CAMP: Thank you, Mr. Chairman.

25 Ward Camp for Gas Company of New Mexico.

EXAMINATION

BY MR. CAMP:

Q. Mr. Fraser, a little bit more specifically. Mr. Stovall talked about past periods. You have, in your chart, current months or right up to the last--April, May, June and July. Where did you get that production data?

A. The April and May numbers came from the state statistical report that's published every month. The June and July numbers were estimates based on Meridian's internal estimate of what the production was for those pools, and I factored that up by what our historic percentage of the entire pool's production is.

For instance, over the last 18 months, for instance the P.C. Pool, Meridian's percentage is about 32 to 33 percent of the entire pool production. I took our internal estimate for those two months and divided that by .33 to come up with what I think is a reasonable estimate of what the production was for July of 1992. I don't know that for a fact until the state books actually come out, but I think it's a reasonable estimate at this point in time.

Q. Have you also been tracking allowable

1 production for this same period?

2 A. The allowable production?

3 Q. Yes.

4 A. What the allowable is?

5 Q. Yes.

6 A. I believe it's in the 15 Bcf range for
7 the Mesaverde.

8 Q. Okay. My question is, for these time
9 periods when you have shown considerable
10 increases in demand, has, in fact, production
11 equaled or been greater to the allowable set?

12 A. I haven't averaged it out, but my sense
13 is that the production for the summer months will
14 be fairly close to the allowable which was
15 granted six months ago.

16 Q. Even though it has these big, big
17 increases, it will only be fairly close to the
18 actual allowable?

19 A. Yes. And as I've said, the four-month
20 time frame there, the average is 14.9 Bcf, and I
21 think the allowable for that same time frame is
22 in the 15 Bcf range for the Mesaverde, so I think
23 it will be fairly close to that 15 Bcf number for
24 that six month time frame.

25 Q. Has Meridian's production equaled or

1 exceeded all of its allowables in the pools
2 during this same time period?

3 A. I don't really know, to tell you the
4 truth. I know our production has gone up. One
5 of the problems is that the current proration
6 book has some errors in it and it's kind of hard
7 to follow on an individual well basis what the
8 allowable is and what the production is. We
9 don't have a real tool to look at what the
10 allowable is for this current six-month time
11 frame. I know our production is up. I don't
12 think it's significantly above or below the
13 current allowable.

14 Q. All right. Has Meridian received any
15 shut-in orders on their wells in the three
16 prorated pools?

17 A. We shut-in wells that are 12 times
18 overproduced, but I think that's a very, very,
19 very minimal number of wells.

20 Q. Are you prepared to say that you've
21 really been adversely affected by the allowables
22 so far, for this last six-month period?

23 A. No. For the approximately 15 Bcf
24 allowable for the Mesaverde for the last six
25 months, we haven't been adversely affected, no,

1 sir.

2 MR. CAMP: No further questions.

3 CHAIRMAN LEMAY: Commissioner Carlson?

4 EXAMINATION

5 BY COMMISSIONER CARLSON:

6 Q. What did you say the allowable
7 currently is?

8 A. I think it's about 15 Bcf per month,
9 but I don't have the exact number.

10 MR. STOVALL: If you think it might be
11 helpful, Commissioner Carlson, I think that's on
12 the table.

13 COMMISSIONER CARLSON: No, it isn't.

14 MR. STOVALL: I'm sorry. I'm looking
15 at the wrong period. This is the October period.

16 COMMISSIONER CARLSON: I might be able
17 to find it.

18 MR. KELLAHIN: Commissioner Carlson,
19 here's a copy of the last order.

20 COMMISSIONER CARLSON: You're right,
21 15.2.

22 Q. (BY COMMISSIONER CARLSON) Was that
23 based on actual production or were there
24 adjustments in that, do you remember?

25 A. There were adjustments.

1 MR. STOVALL: Perhaps I better answer
2 that rather than the witness, since he wasn't
3 here.

4 COMMISSIONER CARLSON: Okay.

5 MR. STOVALL: The same process has been
6 used since we've gone to the six-month period.
7 My recollection is there have been adjustments
8 made in each proration period by the Commission
9 so, yes, there were adjustments. And I can say
10 that based upon production numbers. I know
11 that's been adjusted upwards. Mr. Van Ryan could
12 answer that, too, if you would like.

13 COMMISSIONER CARLSON: Mr. Kellahin
14 gave me a copy of the order, and it was adjusted
15 three million, up to 15.2 from 12.2.

16 Q. Do you have any idea what the
17 deliverability is from each of these pools?

18 A. I can't quantify a number, but it's
19 probably slightly higher than the allowable.

20 Q. When Meridian, and I assume all
21 companies are the same, Meridian does not set,
22 really, demand by pool, do they? You look at the
23 San Juan Basin for all the wells you operate and
24 say I need "X" Mcf today or next week, whatever,
25 right?

1 A. That's correct.

2 Q. I assume that's true, that the days
3 when pipelines or producers set demand by pool
4 are more or less gone, they do it by receipt
5 points or Basin, is that correct?

6 A. I believe that's correct.

7 Q. In your experience that's probably true
8 nationwide now?

9 A. Yes. I don't think you can know what
10 the demand is for the Mesaverde Pool by itself,
11 or the Dakota Pool by itself. I think it's a
12 total number.

13 Q. In New Mexico, really we probably have
14 two demands? We have a demand for the San Juan
15 Basin and a demand for the Permian Basin, and
16 really no pool-specific numbers anymore?

17 A. That's correct.

18 Q. When we perform this exercise every six
19 months, that's really the only time anybody
20 breaks it down to demand by pool, is that
21 correct?

22 A. I believe that's correct.

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

25 CHAIRMAN LEMAY: Commissioner Weiss?

EXAMINATION

BY COMMISSIONER WEISS:

Q. I'm glad to see you in New Mexico. Did you test your methodology of Meridian's share of the last two months, how you scaled up to predict for the pool-wide estimate against the past few months?

A. Yes, sir, we did. That number came from the last 18 months, January of 1991 through, I believe it was the last month published, which was May of 92. We looked at that month by month and looked at a weighted average. It's fairly consistent throughout that 17-month time frame.

Q. Very good. Thank you. And then, does Meridian receive a wellhead price different, much different than the other operators in the pools?

A. Boy, I'm not a marketing expert. I really don't know. I would doubt it; I just don't really know.

COMMISSIONER WEISS: Thank you. That's all I have.

EXAMINATION

BY CHAIRMAN LEMAY:

Q. I have just one question, Mr. Fraser. On your group showing averages over the last five

1 years, do you have any opinion as to what the
2 pool deliverability has done over those five-year
3 periods?

4 A. Well, I think there has been testimony
5 in previous hearings that the deliverability has
6 probably gone down, but at the same time pipeline
7 pressures were going up. I think that's what
8 you're seeing, is deliverability going down or
9 production going down, as a function of pipeline
10 pressures going up.

11 I don't know that I know what the
12 deliverability has done over that five-year time
13 frame. Obviously production was less than the
14 allowable, but I think a lot of that stems from
15 the gathering system pressures that we've had to
16 work against.

17 CHAIRMAN LEMAY: Thank you. Additional
18 questions of the witness? Mr. Stovall.

19 MR. STOVALL: I just have one follow-up
20 to that question.

21 FURTHER EXAMINATION

22 BY MR. STOVALL:

23 Q. You indicated that you believe that
24 with these pools the pool deliverability is
25 somewhat in excess of the allowable or your

1 recommended allowable, is that correct?

2 A. That's correct.

3 Q. Other than declining pipeline pressure
4 and therefore the ability of the wells to produce
5 more in their current state, do you know of any
6 development reworking, infill drilling efforts,
7 that will go and will somehow flatten out the
8 deliverability of the various pools? Is Meridian
9 specifically involved in any--

10 A. Oh, we constantly evaluate our asset
11 base to see if we can improve it and increase its
12 value by drilling new wells, recompleting, that
13 sort of thing. I don't think we have a conscious
14 effort to, because if the allowable is higher,
15 we're going to go out and drill a bunch more
16 wells to meet that. I think our current asset
17 base can meet the current allowable and the
18 allowable we've recommended.

19 Q. Of course, that's a function of being
20 able to--you don't drill wells unless you get
21 them into the pipe, and I guess that would be--

22 A. That's correct.

23 Q. Assuming there's more pipeline
24 capacity?

25 A. That's correct. I believe that's

1 correct.

2 Q. That would be a driving force, would it
3 not?

4 A. Yes, sir. To answer your question, we
5 constantly look for ways to increase and improve
6 our asset base, and that, a lot of times, is
7 reworking wells and drilling new wells.

8 Q. I guess my question is, is there any
9 change in the deliverability trend that you would
10 see?

11 A. Major? I don't believe a major
12 change. I don't think we're going to go out and
13 drill a significant number of new wells. I think
14 the pipeline gathering pressures has been the
15 single, most positive change that's happened in
16 the flow regime of the wells, has allowed them to
17 produce more.

18 MR. STOVALL: Nothing further. Thanks.

19 CHAIRMAN LEMAY: Additional questions?
20 You may be excused. Thank you very much.

21 Let's take a 15-minute break and come
22 back at 10 minutes till 11:00.

23 [A recess was taken.]

24 CHAIRMAN LEMAY: We shall resume. Mr.
25 Carr?

1 MR. CARR: If it please the Commission,
2 at this time we would call Mr. Hawkins to make a
3 presentation for Amoco Production Company.

4 J. W. "BILL" HAWKINS

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

7 EXAMINATION

8 BY MR. CARR:

9 Q. Would you state your full name for the
10 record, please?

11 A. James William Hawkins.

12 Q. Where do you reside?

13 A. Denver, Colorado.

14 Q. Mr. Hawkins, by whom are you employed
15 and in what capacity?

16 A. Amoco Production Company as a senior
17 petroleum engineering associate responsible for
18 regulatory affairs in Colorado and New Mexico.

19 Q. Have you previously testified before
20 the New Mexico Oil Conservation Commission?

21 A. Yes, I have.

22 Q. In fact, presented testimony at the
23 last allowable hearing on behalf of Amoco, did
24 you not?

25 A. That's correct.

1 Q. At the time of your prior testimony,
2 had your credentials as a petroleum engineer been
3 accepted and made a matter of record?

4 A. Yes, they have.

5 Q. Are you familiar with the New Mexico
6 gas prorationing system?

7 A. Yes, I am.

8 Q. You monitor that system, in fact, for
9 Amoco Production Company, do you not?

10 A. Yes.

11 Q. Have you reviewed the preliminary
12 nominations for the prorated pools in the San
13 Juan Basin?

14 A. Yes, I have.

15 Q. Are you prepared to make
16 recommendations to the Commission concerning
17 allowables for these pools for the next proration
18 period?

19 A. Yes, I am.

20 MR. CARR: Are Mr. Hawkins'
21 qualifications acceptable?

22 CHAIRMAN LEMAY: They're accepted.

23 Q. Mr. Hawkins, would you briefly state
24 what Amoco seeks with its presentation here
25 today?

1 A. We would like to make a recommendation
2 for adjustments for the prorated pools in the San
3 Juan Basin and show what the impact would be on
4 resulting F1 and F2 factors to calculate
5 allowables in those pools.

6 Q. Have you prepared an exhibit for
7 presentation here today?

8 A. Yes, I have.

9 Q. Would you refer to what has been marked
10 as Amoco Exhibit No. 1, identify that, and then
11 review the information on this exhibit for the
12 Commission?

13 A. Exhibit 1 is simply a set of
14 calculations similar to what the Division
15 publishes or has published for notice in this
16 hearing. It shows similar average monthly sales
17 as what were published by the Division. It shows
18 a recommended adjustment of 2 Bcf per month for
19 the Basin Dakota Pool, 3 Bcf per month for the
20 Blanco Mesaverde Pool, 150 million cubic feet per
21 month for the Blanco P.C. Pool, and a hundred
22 million cubic feet per month for the Tapacito
23 Pool.

24 These adjustments are identical to what
25 was approved during the last allocation period,

1 and we recommend that they be used for the
2 upcoming winter period.

3 The reason we're recommending that is
4 several-fold: It appears that looking at our
5 production and also from the presentation that
6 Meridian made just previously, the production has
7 increased through these conventional pools as was
8 reasonably expected at the time at last year or
9 last period, and that expectation was as a result
10 of increased pipeline transportation and resulted
11 lowering of system pressures, pipeline pressures
12 and gathering system pressures.

13 It appears that the adjustments that
14 we're recommending and what was used last year is
15 reasonable. It looks like it will accommodate
16 current production levels and expected production
17 levels through this next period.

18 We would recommend that the Division
19 apply those same adjustments for the upcoming
20 winter period, and we feel like that will
21 adequately meet the market and expected
22 production from those pools and should not have
23 any significant impact on over- or
24 underproduction from those pools.

25 Q. Mr. Hawkins, the actual adjustment that

1 Amoco is recommending is set forth on the third
2 line of Amoco Exhibit No. 1?

3 A. That's correct.

4 Q. Basically, you were here six months ago
5 and projected certain increases in production in
6 the San Juan Basin?

7 A. That's right. I think we showed there
8 would be an increase of about 550 million cubic
9 feet per day as a result of increased--or as a
10 result of decreasing pipeline pressures and
11 increasing a well's ability to produce. That's
12 almost a doubling of production from the low
13 period, I guess, just prior to the input of
14 pipeline expansion. And just based on Amoco's
15 operated wells, we've seen already a 50 to 75
16 percent increase in production from those
17 conventional prorated pools, and are expecting
18 that we will just about meet that full hundred
19 percent increase in production that we were
20 looking at six months ago.

21 So, I think these adjustments for the
22 proration schedules will certainly accommodate
23 that production and meet the market for that
24 production.

25 Q. In other words, is it your testimony

1 that these adjustments are necessary for
2 operators in these prorated pools to meet the
3 market demand for gas from these pools during the
4 next period?

5 A. Yes, it is.

6 Q. Do you have anything further to add to
7 your testimony?

8 A. No.

9 Q. Was Exhibit 1 prepared by you?

10 A. Yes.

11 MR. CARR: At this time, may it please
12 the Commission, we would move the admission of
13 Amoco Exhibit No. 1.

14 CHAIRMAN LEMAY: Without objection,
15 Exhibit 1 is in the record.

16 MR. CARR: That completes my direct
17 examination of Mr. Hawkins.

18 CHAIRMAN LEMAY: Thank you. Questions
19 of the witness? Commissioner Weiss.

20 EXAMINATION

21 BY COMMISSIONER WEISS:

22 Q. Is there a difference between your F1
23 and F2 factors and the OCD's?

24 A. Yes. The F1 and F2 factors that we've
25 calculated here include the adjustments that

1 we're recommending. If you looked at what the
2 OCD has submitted, you'd see that the F1 and F2
3 is quite a bit lower without that adjustment in
4 it.

5 COMMISSIONER WEISS: Thank you. That
6 was my only question.

7 CHAIRMAN LEMAY: Commissioner Carlson?

8 EXAMINATION

9 BY COMMISSIONER CARLSON:

10 Q. I notice some similarity between your
11 proposed adjustments and Meridian's. I take it
12 that Meridian and Amoco discussed this and
13 concluded that this was what you would recommend,
14 is that correct?

15 A. Well, in actuality yes, we did have a
16 discussion. However, we had conducted a separate
17 analysis from them, and when we did discuss what
18 was each company going to recommend, it turned
19 out that they were basically identical in the
20 Dakota and the Mesaverde.

21 I think the reason for that is that
22 we're looking at the same adjustments as what was
23 approved by the Division for the last six-month
24 period. I think we both agree that production
25 has increased significantly and that these

1 adjustments should accommodate expected
2 production throughout the winter period.

3 Q. Have you discussed these adjustments
4 with other San Juan Basin producers, the ones
5 that aren't represented here today?

6 A. No, I have not. I have talked with
7 representatives from Phillips and understand
8 they're going to make a recommendation very
9 similar to this. I think we all recognize that
10 there is increasing production from these
11 conventional pools as a result of pipeline
12 pressure decreases, and increased transportation,
13 and I think all we're doing is recommending to
14 the Division to accommodate the expected
15 increased production and the market for that
16 production.

17 COMMISSIONER CARLSON: Thank you.

18 CHAIRMAN LEMAY: He may be excused.

19 Looking back here, Mr. Kellahin, do you
20 want to proceed?

21 MR. KELLAHIN: Presentation for
22 Phillips.

23 **KIRK CZIRR**

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

EXAMINATION

BY MR. KELLAHIN:

Q. All right, sir. Would you please state your name and occupation?

A. Yes. My name is Kirk Czirr. I'm the field development supervisor for Phillips Petroleum Company in Farmington, New Mexico.

Q. Mr. Czirr, on prior occasions have you testified before the Commission at past allowable hearings?

A. Yes, sir, I have.

Q. What specifically have you done with regards to this particular hearing today on behalf of your company?

A. I've looked at Basin Dakota Pool allowables and am prepared to make recommendations for adjustments.

Q. Your focus of recommendation, then, is on the Basin Dakota Pool?

A. Yes, sir.

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

CHAIRMAN LEMAY: His qualifications are acceptable.

Q. Let me direct your attention to what is

1 marked as Phillips Exhibit No. 1. Are Exhibits
2 1, 2 and 3, documents that you've prepared?

3 A. Yes, sir.

4 Q. Let's turn to Exhibit 1, then.
5 Identify for us how to read the display and then
6 let's talk about what conclusions you've reached
7 from that information.

8 A. Okay. Again, strictly for the Basin
9 Dakota Pool in the San Juan Basin, what I've got
10 plotted from January of 1989 through May of 1992,
11 which was the most recent available data, is pool
12 overall gas production on a monthly basis versus
13 spot gas prices, dollars per MMBTU at El Paso
14 Blanco hub.

15 We've got gas price shown on the left
16 vertical axis and gas production and Bcf a month
17 shown on the right vertical axis. Gas price is
18 the curve in red. Production is in blue.

19 What this is intended to show is that,
20 first of all, there's virtually a direct
21 correlation between gas production and gas
22 price. In the winter periods, you can look at
23 the graph, and if gas prices have been high,
24 production is going to be high. In the
25 summertime, if gas prices are low, production is

1 going to be low.

2 It also shows that the winter, the
3 1991-1992 winter production period, which we're
4 comparing ourselves against this current
5 allowable setting, it shows abnormally low gas
6 prices for the winter, and correspondingly
7 abnormally low gas production for that same time
8 period. Part of that's been due to overall
9 depressed gas prices nationally during that time
10 period. Locally we were seeing effects from
11 pipeline capacity constraints which further were
12 depressing San Juan Basin gas prices. Those
13 capacity constraints are no longer there.

14 If you look at production since
15 February of 92, you'll see that in February of 92
16 we reached a low point in the Basin Dakota Pool
17 with the gas price of approximately a dollar per
18 MMBTU. Gas production was a little over six and
19 a half Bcf per month, and since that time we've
20 seen a steady and consistent increase in gas
21 prices and a corresponding increase in gas
22 production.

23 Q. Describe for us what Phillips' general
24 marketing strategy is for production out of this
25 pool.

1 A. Phillips' strategy out of this pool and
2 other pools within the Basin is to produce year
3 around, to the best of our ability, to try to
4 provide a constant and consistent base load to
5 the consumer.

6 Q. In your opinion, should we forecast
7 future market demand and thereby set allowables
8 for this pool based upon the last historical
9 production for the period of October 91 through
10 March of 92?

11 A. No. In general, you can get into
12 problems with that in any time period, and I
13 think in particular, looking at this time period
14 that we're examining now, there's even more
15 things to be taken into account rather than just
16 looking at actual production numbers.

17 Q. Let's turn now to Exhibit No. 2 and
18 have you identify and describe that display.

19 A. As we looked at on the last exhibit,
20 production from the pool has seen some fairly
21 large swings relating to whatever the gas price
22 happened to be. Trying to determine exactly what
23 is going on with production, we looked at the
24 approximately 3,800 active Basin Dakota wells in
25 the pool, including marginal and nonmarginal

1 wells.

2 We tried to compare--we tried to look
3 at individual wells and see if they were all
4 producing consistently through the winter and
5 summer periods, or if there was a substantial
6 portion of wells where they might, essentially,
7 be shutting in in the summer and producing only
8 in the winter and that creating a swing.

9 What we found was, if you look at the
10 1990-1991 winter, okay, and compare production to
11 what we saw in the summer of 1991, what you find
12 is that of the 3,800 wells, almost 1,500 of those
13 wells were producing at a rate at least twice in
14 the wintertime versus in the summertime. Their
15 winter production volumes were at least twice
16 what their summer production volumes were.

17 If we go to the winter of 91-92 and
18 compare production from those same wells again
19 and compare it to summer 1991 production, what we
20 find is that only a little over 600 wells had
21 wintertime production at least double the
22 summertime production. We directly attribute
23 that to gas prices.

24 It's evident from looking at this that
25 you have a number of operators whose marketing

1 strategy is to curtail during low gas price
2 periods and produce during the high gas price
3 periods. During the winter 91-92, we had
4 relatively low gases on a historical basis
5 compared to previous winters, and therefore we
6 didn't see the big swings in production. We
7 still had a substantial amount of production shut
8 in in the winter of 91.

9 Q. What's your estimate of price for the
10 next proration period in terms of how it might
11 affect production from this prorated pool?

12 A. Again, as we've seen, price has a
13 direct impact on production. Since February,
14 when we were at \$1 per MMBTU, we're approximately
15 at \$1.85 per MMBTU in August. Futures prices for
16 November 92 through February of 93 average \$2.06
17 per Mcf, so it's our feeling that gas prices will
18 indeed continue to increase through the winter
19 time period and we will see the increase in
20 production continue.

21 Q. Let me ask you to turn to Exhibit 3
22 and, without reading your conclusions, summarize
23 for us each of the points that you want to make
24 in the presentation.

25 A. Okay.

1 Q. We've already addressed the fact that
2 the most recent historical production is not a
3 true indicator of what will happen this next
4 winter proration period. What is your estimate
5 of the true deliverability or the capacity of
6 this pool to produce gas?

7 A. If you look over the last six years,
8 including the last year or two when wintertime
9 production was relatively low by historical
10 standards, if you look at the last six years,
11 average production, when gas prices have been
12 high, has been in excess of 10 Bcf per month and
13 we think that that's a realistic deliverability
14 for the pool.

15 When we look at what kind of allowables
16 are needed in order to obtain the 10 Bcf per
17 month, we see that we need about somewhere in the
18 vicinity of a 4 Bcf allowable for nonmarginal
19 wells.

20 Q. And that is not the level of request
21 that you're making at this point?

22 A. I'm saying we need allowables of
23 approximately 4 Bcf for nonmarginal wells, not
24 necessarily an adjustment. The adjustment that
25 we would be requesting is approximately a 1.8 Bcf

1 adjustment. If you look on Exhibit 3--

2 Q. You can go back to Exhibit No. 2, if
3 you want to look at the spread sheet and find, I
4 think, it's the third entry down?

5 A. Yes.

6 Q. All right. Let's talk about that.

7 A. If we look at the spreadsheet that I
8 prepared here, it shows the OCD's proposed
9 allowable for the October 92 through March 93
10 period, and the effect on those numbers on
11 allowables for different deliverability wells,
12 different deliverability GPUs.

13 In the next column over, we have for
14 comparison the current allowables that exist for
15 April 92 through September 92, and the farthest
16 right column over represents Phillips' proposed
17 allowable.

18 If you work down the spreadsheet for
19 different deliverabilities, I have here a 200 Mcf
20 a day case, 490, 750 and 1 million cubic feet a
21 day case. What you find is that with the
22 Phillips' proposed allowable, total nonmarginal
23 pool allowable of 3.9 Bcf per month, you still
24 have curtailment for wells that are producing
25 substantially greater than the average

1 deliverability of the average nonmarginal well,
2 which is about 518 Mcf a day.

3 Q. Do you see any potential to impair
4 correlative rights of any of the operators or
5 people entitled to share in production in the
6 pool if the allowable level is approved, as you
7 propose it?

8 A. Phillips does not feel that
9 reservoir-related correlative rights are of an
10 issue in the Basin Dakota Pool. Again, if you
11 look at the operating practices of many operators
12 within the pool, where they are curtailing
13 production during low price periods and producing
14 only during high price periods, that yields an
15 overall lower annual production. And they would
16 not be doing that if they were worried about
17 reservoir-related drainage issues.

18 Q. In your opinion, is there a demand for
19 the production of gas at the allowable level
20 you're proposing? Can you market and sell this
21 gas?

22 A. Yes, sir, we can market all of our gas.
23 And I think the demand is also evidenced by the
24 fact that gas prices are increasing. If the
25 demand was not there, I don't believe gas prices

1 would be increasing.

2 Q. Do you concur with the conclusions
3 reached by Mr. Fraser and Mr. Hawkins that in
4 recent past, the fact that wells were not
5 producing their entire allowable may be
6 attributed not only to price but to pipeline
7 capacity constraints?

8 A. It can be attributable to a wide number
9 of things, like you said, pipeline capacity,
10 which again affects price. Every operator has
11 his own marketing strategy and his own threshold,
12 as far as when he produces all that he can versus
13 when he produces only a small fraction of that.

14 Q. In summary, your conclusion is to
15 recommend an adjustment in the Basin Dakota that
16 is consistent with the adjustment made by the
17 Commission for the current proration period we're
18 now in, which was in the range of 1.8, I guess,
19 to 2?

20 A. It was--yes. That actually gives you
21 slightly higher F1 and F2 factors than what we
22 have in the current period. Again, I think
23 that's justified by the fact that we are going
24 into the winter season and will expect even
25 higher gas prices, higher demand for gas and

1 higher production levels.

2 The only other thing I would like to
3 add is that we did receive a large adjustment in
4 allowables for the summer 1992 period that
5 allowed some operators to economically justify
6 development drilling programs which were badly
7 needed, well workover programs, et cetera.
8 Phillips themselves, we've not drilled any wells
9 yet. We're still trying to get funding for them,
10 but maintaining the high allowables is key
11 towards continuing to promote activity in the
12 Basin and give operators some security that if
13 they make investment decisions today, based on
14 high allowables, there will still be sufficient
15 allowable in the future to receive the pay back
16 on those investments.

17 Q. Will allowables for this pool, at the
18 level you request, provide that economic
19 opportunity for additional workovers, compression
20 and drilling in the pool?

21 A. Yes, sir, they will.

22 MR. KELLAHIN: That concludes my
23 examination of Mr. Czirr. We move the
24 introduction of his Exhibits 1 through 3.

25 CHAIRMAN LEMAY: Those exhibits will be

1 admitted into the record without objection.

2 Questions of Mr. Czirr?

3 MR. STOVALL: One, Mr. Chairman.

4 EXAMINATION

5 BY MR. STOVALL:

6 Q. Looking at your Exhibit No. 1, am I
7 seeing correctly that it appears that actually
8 production increases preceded price increases,
9 kind of as a trend? If you look at all the
10 upward lines and they follow price decreases,
11 which you might expect, but I think you would, am
12 I seeing it correctly? It looks like they're
13 about a month or month and a half ahead of actual
14 price, just looking at the direction where the
15 line turns and starts up?

16 A. In some cases. If you look at the most
17 recent information that we've got, which would be
18 February of 92, gas production was low in
19 February of 92 and evidently not predicting
20 higher prices. That would follow. In some years
21 that has happened.

22 Q. Is that in anticipation that prices
23 will be higher, so start getting in and get your
24 market share?

25 A. It could be.

1 MR. STOVALL: Okay. I was just
2 curious.

3 CHAIRMAN LEMAY: Additional questions
4 of the witness?

5 Commissioner Weiss?

6 COMMISSIONER WEISS: Just one.

7 EXAMINATION

8 BY COMMISSIONER WEISS:

9 Q. What's a GPU?

10 A. Gas proration unit.

11 COMMISSIONER WEISS: Thank you. That's
12 the only question I'm missing.

13 CHAIRMAN LEMAY: Commissioner Carlson?

14 EXAMINATION

15 BY COMMISSIONER CARLSON:

16 Q. On your Exhibit 1, El Paso Natural Gas
17 prices, you say that's a spot price?

18 A. Historical spot price, yes.

19 Q. Published by whom? Is that inside FERC
20 Gas Daily?

21 A. To tell you the truth, I can't answer
22 you. I got that from our marketing people in
23 Houston for what the historical spot prices were.

24 Q. Looking at your Exhibit 1, is there any
25 indication at all that past proration by this

1 Commission has had any effect on the production
2 line there?

3 A. Obviously it affects, when you look at
4 this pool in particular, obviously it affects
5 production from some wells. We certainly have
6 nonmarginal wells that are curtailed due to
7 proration. In fact, we still have some
8 nonmarginal wells shut in because we went the 12
9 times overproduced.

10 The relatively small number of
11 nonmarginal wells within the pool and then the
12 relatively small number of nonmarginal wells that
13 produces sufficient volume to have an allowable
14 problem, that turns out to be a small percentage
15 of the overall pool, so you probably don't see it
16 on the graph itself.

17 Q. How many nonmarginal wells do you have
18 shut in now because of overproduction?

19 A. Eight, I believe.

20 Q. Eight?

21 A. I believe, and they were shut in about
22 eight months ago.

23 Q. On your Exhibit No. 2, you say the
24 upcoming allowable period average nonmarginal
25 deliverability is 518 Mcf per day. How did you

1 arrive at that number?

2 A. That just comes from the OCD mailings
3 where they take the acreage times the
4 deliverability number and divide that by the
5 total number of nonmarginal acre factors.

6 Q. And, according to your calculations for
7 your recommendations, I guess the break-even line
8 where prorationing would have any effect would be
9 at 590, is that correct?

10 A. Yes, and I think the people before me
11 that have asked for a slightly higher adjustment,
12 2 Bcf adjustment compared to our 1.8 Bcf
13 adjustment, I think that raises them up to about
14 650 or something like that, in that general
15 ballpark.

16 Q. 650?

17 A. Yes.

18 Q. I guess it's--for the Basin Dakota it's
19 229.86 nonmarginal acreage factors?

20 A. Yes, sir.

21 Q. Do you know how many of those would be
22 producing above the 590?

23 A. No, I would not.

24 Q. Do you have any idea?

25 A. No, sir.

1 Q. So I assume you also have no idea as
2 far as the 650 that Meridian and Amoco would
3 like?

4 A. Right.

5 MR. STOVALL: Commissioner Carlson, if
6 I could help with that, the bulk of those will
7 have produced above that level kind of on an
8 average. That's how they stay nonmarginal.
9 That's based upon actual production and not any
10 sort of deliverability test, so probably most of
11 them are producing at or above that cutoff level
12 that he's identified.

13 COMMISSIONER CARLSON: Above the 518,
14 though, which is the current level?

15 MR. STOVALL: I don't know if that's
16 what it is. I'll accept his current analysis.

17 COMMISSIONER CARLSON: There may be a
18 substantial number of those between 518 and 590,
19 for example?

20 MR. STOVALL: Correct. Yeah. They
21 could be right at that level. They just have to
22 produce a nonmarginal allowable at some point to
23 stay nonmarginal.

24 Q. One final question. You're
25 recommending less adjustments than Meridian or

1 Amoco. Would you have any problem with their
2 recommended adjustments?

3 A. No, sir. In fact, I think as discussed
4 in earlier testimony, we, in fact, talked about
5 this whole issue. Phillips has talked with
6 Amoco, with Meridian and with Unocal, and we're
7 comfortable with their numbers. I'm not sure
8 that there is a number that sticks out as being,
9 you know, the absolute and only appropriate
10 number.

11 COMMISSIONER CARLSON: I understand.
12 Thank you.

13 CHAIRMAN LEMAY: Additional questions?

14 EXAMINATION

15 BY MR. CAMP:

16 Q. If I can just ask it from here? As a
17 follow-up to Commissioner Carlson's question, you
18 said there were eight wells shut in by Phillips
19 because of overproduction. Is that pursuant to
20 an order of the Division or is it because of
21 internal reasons of Phillips?

22 A. Well, they're shut in because we
23 exceeded 12 times over our allowable and
24 recognized that on one of the OCD proration
25 schedule mailings, I guess a year ago or sometime

1 back, and so we took the action voluntarily.

2 MR. CAMP: Thank you.

3 CHAIRMAN LEMAY: Additional questions?
4 The witness may be excused. Thank you. Unocal?

5 MR. CARR: Mr. Chairman, Unocal would
6 like to make a brief statement concerning the
7 allowables in the San Juan Basin, and that may be
8 the last matter that relates to the San Juan
9 Basin.

10 CHAIRMAN LEMAY: Let me ask you, Mr.
11 Camp, do you have any witnesses?

12 MR. CAMP: I do have a witness.

13 CHAIRMAN LEMAY: Let's have that
14 testimony and then we'll take the statement.

15 Is this going to be the last testimony
16 on the San Juan Basin? We'll accept statements
17 afterwards.

18 MR. CAMP: Thank you, Mr. Chairman,
19 Commissioners.

20 **VICTOR T. LYON**

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

23 EXAMINATION

24 BY MR. CAMP:

25 Q. Mr. Lyon, would you state your name for

1 the record?

2 A. Victor T. Lyon.

3 Q. Mr. Lyon, are you the previous chief
4 engineer of this Division and a petroleum
5 engineer?

6 A. Yes, I am.

7 Q. Have you previously had your
8 credentials accepted as a petroleum engineer and
9 as an expert on the prorationing system of New
10 Mexico in this Division?

11 A. Yes, I have.

12 MR. CAMP: I tender Mr. Lyon as an
13 expert in the prorationing system.

14 CHAIRMAN LEMAY: His qualifications are
15 acceptable.

16 Q. Who are you appearing on behalf of
17 today?

18 A. Gas Company of New Mexico.

19 Q. Does Gas Company of New Mexico have a
20 position on the recommended allowables of the
21 Division?

22 A. Yes, it does.

23 Q. What is its position?

24 A. Gas Company feels that the proposed
25 allowables as published by the OCD are very much

1 in line with the demand, as they see it. They
2 feel that demand is approximately flat with last
3 year, and recommend strongly that the OCD use
4 their proposed factors as the factors in the
5 proration schedule.

6 Q. Has Gas Company submitted its
7 nominations for this next six-month allowable
8 period?

9 A. Yes. We were a little bit late, but we
10 turned them in.

11 Q. Are those nominations basically flat
12 with the previous six-month allowable period for
13 the previous year?

14 A. Yes, they are.

15 Q. What other basis does GCNM have for
16 recommending that this Commission accept the
17 proposed allowables? Before you get into that, I
18 guess so that this Commission understands, which
19 pools are of concern to Gas Company of New
20 Mexico?

21 A. Gas Company is concerned only with the
22 prorated pools in San Juan Basin, which is the
23 Basin Dakota, Blanco Mesaverde, South Blanco
24 Pictured Cliffs and the Tapacito Pictured Cliffs.

25 Q. Thank you. I interrupted you. You may

1 go on.

2 A. I would like to have been able to
3 analyze and evaluate data as to the performance
4 of the pools under the allowables which have been
5 issued. I have not--I've looked at all the data
6 that has been made available to me, but there
7 just is not enough data to evaluate.

8 One of the things that Gas Company is
9 concerned about is the impact of the coal bed
10 methane gas as it might affect the market for the
11 conventional gas and, more specifically, the
12 prorated conventional gas.

13 I think Mr. Merrett pointed out that
14 gas production from the state, due to the
15 increased pipeline capacity, has increased, but I
16 believe he said that most of that increase has
17 been taken up by the coal bed methane. And he
18 also pointed out that the production for the
19 first part of the year is atypical due to some of
20 the situation in regard to gas storage,
21 primarily.

22 But I think this would give me concern,
23 that gives Gas Company concern, that there
24 actually is going to be that much more demand for
25 conventional gas out of the Basin.

1 Q. You also heard Mr. Merrett's testimony
2 that demand for this year's gas appears to be
3 running at approximately 10 percent higher. Have
4 you reviewed the OCD information on the
5 comparison of monthly average pool allowables
6 versus actual sales?

7 A. If you're talking about the tabulation
8 that showed production and allowables for the
9 previous three proration periods or allocation
10 periods for the winter months, yes, I've looked
11 at that.

12 Q. Notwithstanding this higher demand,
13 does it appear that actual production was still
14 less than the said allowables?

15 A. Well, my observation, looking at this
16 data, is that in the previous two allocation
17 periods there were adjustments made at the
18 request of the producers, and in all those
19 situations, the pool was underproduced by
20 somewhere near the amount of adjustment.

21 Q. So is it your opinion that if Amoco,
22 Phillips, these other folks are right that demand
23 is actually higher, that the allowables,
24 nonetheless, will be sufficiently high to absorb
25 any increase in demand, that there will still be

1 sufficient supply?

2 A. It's my observation that producers will
3 almost invariably overnominate, and I have doubts
4 personally that that demand will increase that
5 much, if any.

6 MR. CAMP: That concludes our
7 presentation.

8 CHAIRMAN LEMAY: Thank you. Questions
9 of the witness? Mr. Stovall?

10 EXAMINATION

11 BY MR. STOVALL:

12 Q. My first question, Mr. Lyon, does Gas
13 Company own production in these prorated pools
14 and have correlative rights which it is concerned
15 may be affected?

16 A. No. Gas Company, to my knowledge, is
17 the only transporter who is still a purchaser in
18 New Mexico.

19 Q. And it is purchasing gas from the
20 prorated pools, is that correct?

21 A. Yes, it is.

22 Q. Its concern, then, is as a purchaser of
23 the gas, not as a producer of the gas whose
24 correlative rights could be impaired by allowing
25 what you would consider an excess allowable, is

1 that correct?

2 A. Well, I think that this hearing is to
3 try to determine the market demand for gas. If a
4 purchaser of gas doesn't have some idea of the
5 market demand, I don't know who would.

6 Q. What is GCNM's market for its gas?

7 A. Mostly it's domestic.

8 Q. "Domestic," meaning?

9 A. Within the State of New Mexico.

10 Q. One of our 50 is missing? It keeps its
11 gas here?

12 A. Yes, and it does export some gas, too.

13 Q. Does Gas Company use--there has been a
14 lot of discussion about the expanded
15 transportation systems. Does Gas Company use
16 those at all? Is there any impact directly on
17 the relationship between Gas Company's business
18 and those--

19 A. I can't give you a definite answer on
20 that. It is my impression, talking to Gas
21 Company personnel, that a good bit of their gas
22 does go into the expanded facility, but I'm not
23 that familiar with their system.

24 MR. CAMP: If it would help you out at
25 all, Bob, everybody keeps on talking about this

1 El Paso. We're one of the partners in the Blanco
2 hub, so we are part of those expanded
3 facilities.

4 MR. STOVALL: Okay. I think that
5 answers that.

6 Q. Nominations that the Gas Company has
7 submitted, are they based upon its anticipated
8 sales primarily in New Mexico of gas in
9 purchases? Resale? Is that where it came up
10 with the number?

11 A. Yes.

12 Q. How did it come up with the number?

13 A. It came up essentially with the same
14 nominations they made last year and the volumes
15 that they received last year were adequate, and
16 they think that the same volumes would be
17 adequate for this coming winter.

18 Q. If allowables or adjustments to the
19 allowables were made as requested by the other
20 parties here for the Northwest, what adverse
21 impact would that have on Gas Company of New
22 Mexico so long as it's able to meet its demand
23 for gas?

24 A. Well, besides possible contract
25 problems, if you set allowables higher than

1 demand, it is, in effect, a partial
2 de-proration. And addressing the protection of
3 correlative rights, the prevention of waste or
4 whatever, as you move toward higher and higher
5 nominations or higher allowables than your actual
6 demand, you are moving toward de-proration which
7 is, I think, not entirely in harmony with the
8 statute which requires this Commission to set
9 allowables at market demand.

10 Q. Speaking specifically to Gas Company of
11 New Mexico, though, does that impair Gas
12 Company's business? You stated they have no
13 production and they're really approaching this as
14 a purchaser?

15 A. That's right.

16 Q. So the correlative rights issue is more
17 of a philosophical one that you're expressing on
18 behalf of the company, is that correct?

19 A. I think in regard to whether proration
20 is in the public interest, Gas Company believes
21 that gas prorationing does provide a benefit to
22 the producers and to the State and to all the
23 parties involved, and to the extent that the
24 system operates as efficiently as possible, I
25 think Gas Company is impacted.

1 CHAIRMAN LEMAY: Is that all, Mr.
2 Stovall?

3 MR. STOVALL: I think that's it.

4 CHAIRMAN LEMAY: I think we can get
5 into subjects not germane to the hearing if we
6 keep going along this line. Any other questions
7 of the witness?

8 Yes, sir, Mr. Camp.

9 MR. CAMP: Gas Company will have a
10 short statement at the very end.

11 CHAIRMAN LEMAY: Fine. Additional
12 questions?

13 MR. KELLAHIN: May we confer for just a
14 minute?

15 CHAIRMAN LEMAY: We'll take some
16 questions here from the Commission, while you're
17 conferring.

18 Commissioner Weiss?

19 COMMISSIONER WEISS: I have no
20 questions.

21 CHAIRMAN LEMAY: Commissioner Carlson?

22 EXAMINATION

23 BY COMMISSIONER CARLSON:

24 Q. How much gas does Gas Company buy out
25 of the San Juan Basin daily?

1 A. I don't have that figure. They have
2 nominations for the prorated pools, but as far as
3 the nonprorated pools, I don't have that data.

4 Q. Do we have copies of those nominations?

5 A. Mr. Van Ryan has them. I don't know if
6 he's made copies for the Commission.

7 MR. STOVALL: We've just received them,
8 Mr. Carlson, if you would like to look at them.
9 We haven't had a chance to analyze them or come
10 up with any specific numbers, but there they
11 are.

12 I would recommend that Gas Company make
13 those an exhibit, to get them in the official
14 record. And we would have no objection to their
15 entry.

16 MR. CAMP: We'll so move, then. I
17 would have made copies but we just received them
18 this morning.

19 Q. (BY COMMISSIONER CARLSON) According to
20 these numbers, as I understand this, Gas Company
21 is nominating 3.8 million Mcf per month out of
22 the Basin Dakota and Suntera is nominating, I
23 guess, 3.9 out of this same pool, is that
24 correct?

25 A. No. I believe that's for the six-month

1 period.

2 Q. That's total for the six months?

3 A. Yes.

4 Q. Oh, I see. That makes a little bit
5 more sense then. Do you know how much coal seam
6 gas Gas Company is purchasing?

7 A. No, I don't.

8 Q. Are they purchasing any, do you know?

9 A. I don't know.

10 MR. CAMP: Very little.

11 COMMISSIONER CARLSON: I guess I have
12 no other questions.

13 CHAIRMAN LEMAY: Commissioner Weiss?

14 COMMISSIONER WEISS: No questions.

15 CHAIRMAN LEMAY: Additional questions?

16 MR. KELLAHIN: Just a few for
17 clarification, Mr. Chairman.

18 EXAMINATION

19 BY MR. KELLAHIN:

20 Q. In the Basin Dakota, what percentage of
21 that prorated gas does Gas Company purchase out
22 of that pool?

23 A. Out of the Basin Dakota? It looks like
24 probably about eight percent.

25 Q. Okay. Eight percent out of the Basin

1 Dakota. What's your percentage of the gas
2 produced out of the Mesaverde?

3 A. Looks like about the same.

4 Q. And how about the P.C.?

5 A. No. Excuse me. Looks like that would
6 be closer to three percent in the Blanco.

7 Q. In the Mesaverde?

8 A. Yes.

9 Q. The Blanco Mesaverde is three percent?

10 A. Yes.

11 Q. And the Blanco South Pictured Cliffs?

12 A. Looks like about 15 percent.

13 Q. Does Gas Company satisfy its entire
14 market demand for production out of those three
15 prorated gas pools?

16 A. No.

17 Q. Do you satisfy part of your market
18 demand with production outside of the State of
19 New Mexico?

20 A. No, not that I'm aware of.

21 Q. Has the increased pipeline capacity had
22 any effect on the production levels of production
23 out of those three prorated pools?

24 A. I don't know.

25 Q. Have you looked at any of the recent

1 production for the current proration period and
2 seen how that production tracks the allowables
3 for those wells?

4 A. Well, this is part of the problem.
5 That data is only available from the statistical
6 report. We do not have data out of the OCD other
7 than from these statistical reports.

8 Q. For example, the Amoco, Phillips and
9 Meridian witnesses testified that they are
10 seeking allowable levels for this next winter
11 period in the Basin Dakota of the 15 Bcf, and
12 that they have markets for that gas and can
13 produce at that level.

14 Do you have any information that shows
15 that that's not correct?

16 A. I don't have any information that
17 corroborates their data. As Mr. Camp brought
18 out, their data for May and June is based on
19 their own production, extrapolated based on their
20 percentage of the production from the pool. But
21 there's no data from the OCD which corroborates
22 that, and if Meridian and Amoco have had a better
23 opportunity to get into the gas market or, for
24 some other reason, has had a higher percentage of
25 production, then that data is severely skewed.

1 Q. The operator would be in the best
2 position in the current circumstances to know if
3 he's producing his wells at allowables that will
4 meet that market demand set by these proration
5 schedules?

6 A. As to his own wells, yes.

7 MR. KELLAHIN: No further questions.

8 CHAIRMAN LEMAY: Additional questions?

9 MR. CARR: I just have one, maybe two
10 very brief questions.

11 EXAMINATION

12 BY MR. CARR:

13 Q. Mr. Lyon, I'm trying to understand what
14 it is you have analyzed. I think you indicated
15 in your direct testimony that you didn't have
16 information available to you that would permit
17 you to analyze the impact of recent allowables on
18 a pool-by-pool basis, is that correct?

19 A. That's correct.

20 Q. So you have not been able to do that,
21 isn't that right? You have not analyzed--

22 A. Other than the data that is shown on
23 the schedule that was published by the OCD.

24 Q. You're aware that there has been an
25 increase in production because of the increased

1 pipeline capacity out of the Basin, correct?

2 A. Statewide or basinwide.

3 Q. Have you been able to determine how
4 much of that might come from any particular
5 prorated pool?

6 A. I don't even know what percentage of it
7 came from the coal bed methane.

8 Q. Before you make a conclusion that
9 demand is flat from these pools, shouldn't you
10 know that?

11 A. Well, I know that Gas Company's demand
12 has not increased.

13 Q. Do you know of anything that would
14 suggest that the demand presented by, say, Amoco,
15 is incorrect?

16 A. No, but I don't think that the data
17 is. I don't think we're dealing with whole
18 cloth, and I think you have to bear in mind Mr.
19 Merrett's comments that these months are
20 atypical; they do not conform to the usual
21 trend.

22 And although I think that trend is
23 probably going to go to a fairly steady volume of
24 gas year around, I do not think that it's
25 typical.

1 Q. Until we have the whole cloth, we
2 couldn't make a general conclusion about what
3 demand is from any pool, could we?

4 A. That's true.

5 CHAIRMAN LEMAY: Additional questions?
6 If not, the witness may be excused.

7 Are there any others that wish to
8 present testimony in the Northwest?

9 Okay. We'll go to statements. Since
10 we're still on Gas Company, would you like to
11 make a statement, Mr. Camp?

12 MR. CAMP: Yes, thank you. Really just
13 a couple of comments. I think Commissioner
14 Carlson, in talking to Mr. Czirr, brought up one
15 of the points that is of concern to Gas Company,
16 and that is that we are talking about a statewide
17 demand and yet we do this allowable on a
18 pool-specific basis.

19 I think, and it's Gas Company's
20 position, that whenever we set a pool-specific
21 allowable, we have to keep in mind what the
22 statutory authority for this Commission is and
23 what they're required to do.

24 I think one of the things, when you're
25 dealing with a fungible good, and you realize

1 that we have interconnected systems out there for
2 gas transportation facilities, we have to look at
3 gas on gas competition.

4 And this Commission, under 70-2-16, is
5 charged with fixing allowables, and I'll just go
6 ahead and quote, "In fixing the allowable of a
7 pool under subsection C of this section, the Oil
8 Conservation Division shall consider nominations
9 of purchasers," that's us, Gas Company, "but
10 shall not be bound thereby," so you can throw out
11 what we say, "and shall fix pool allowables to
12 prevent unreasonable discrimination between pools
13 served by the same gas transportation facility by
14 a purchaser purchasing in more than one pool."

15 Therefore, when you hear somebody say,
16 like a Phillips, a Meridian, an Amoco, we have
17 the market and yet you see overall market demand
18 on a statewide basis staying flat, then
19 somebody's getting more gas. You have to look
20 into the factors of: In fact, is a pool going to
21 be discriminated either for or against by
22 increasing allowables? If there's a statewide
23 demand and it's basically flat, and somebody
24 keeps on saying that I can sell more, and I can
25 sell more from this pool, what's the effect on

1 the other pools?

2 And to think that it's just that we
3 focus on one pool and say, well, we have two
4 producers in here that say they can market all
5 their gas if you'll increase it, really does not
6 comply with what the statute requires, and that
7 is this discrimination between pools.

8 And that brings up the second point.
9 We've heard something about correlative rights as
10 if correlative rights is all this Commission can
11 be concerned about. That's not true. Because
12 when you talk about unreasonable discrimination
13 between pools, we're talking about a statewide
14 conservation system that's not concerned about
15 just correlative rights, because that's within
16 the pool, but between pool on pool
17 discrimination, pool on pool preference,
18 purchasing practices that may unfairly benefit
19 one pool to the detriment of another pool. This
20 is what the very statute requires this Division
21 to look at in setting allowables.

22 There's also been some questions,
23 judging from Mr. Stovall's questions, what does
24 Gas Company care? Setting the market demand is
25 what we're about today. It says, and I quote

1 here, 70-2-16 (C), just in part, "In allocating
2 production pursuant to the provisions of this
3 subsection, the Division shall fix proration
4 periods of not less than six months and shall,
5 upon notice and hearing, determine the reasonable
6 market demand and make allocations of production
7 during each proration period."

8 We're going to determine what the
9 market demand is, in part, by considering the
10 nominations of purchasers. We've submitted one,
11 albeit a little bit late and we apologize for
12 that, but we've submitted a nomination. The
13 producers say they have a market, but they're not
14 submitting nominations by their purchasers, that
15 isn't the evidence that they're submitting.
16 They're saying, well, we think we can sell it.
17 We don't have a nomination from the purchasers,
18 but they say, "We think that we can sell it."

19 That's not something that you're really
20 able to consider. And then they just say, "I
21 have a market, so help this pool out," without
22 taking into effect the fact that this is a
23 fungible good, gas on gas, pool on pool
24 competition does exist, and this state has, I
25 think, a very large interest in a statewide

1 conservation scheme that has the development of
2 all pools in mind, not just specific pools.
3 Thank you very much.

4 CHAIRMAN LEMAY: Mr. Carr?

5 MR. CARR: May it please the
6 Commission, Mr. Van Horn would like to make a
7 brief statement.

8 MR. VAN HORN: Mr. Chairman, my name is
9 Craig Van Horn. I'm a field superintendent with
10 Unocal in Farmington, New Mexico. Unocal would
11 like to voice their support for Meridian's,
12 Amoco's and Phillips' testimony, and particular
13 support for administrative adjustments in the
14 Basin Dakota of 2 Bcf, the Blanco Mesaverde of 3
15 Bcf.

16 Unocal's position on marketing gas is
17 to sell and market everything that we can
18 produce, and we have never had a problem being
19 able to market as much as we can produce. We've
20 just begun a 22-million-dollar new well drilling
21 program, and market analysis indicates we'll be
22 able to market that gas, also. The market
23 analysis was done prior to initiating the
24 program.

25 The correlative rights issue, I think,

1 by this infill drilling program, indicated that
2 correlative rights is not an issue. That's the
3 reason for infill wells, is to recover gas that
4 would not be produced by existing wells.

5 Our new infill drilling program that
6 we're on right now for the next allocation
7 period, we forecast 20 new completions in the
8 Dakota. We have the capability of eight million
9 cubic feet a day. Under the current proposed
10 allocations, they will be allocated 3.6 million,
11 which means they'll be able to produce at 45
12 percent of their forecast capability. That's in
13 the Dakota.

14 In the Mesaverde, we forecast 17 new
15 completions. Their capability is 6.8 million per
16 day; but allocations will limit them to 4.2
17 million, so these completions will be restricted
18 to 62 percent of their capable production.

19 I think Meridian, Amoco and Phillips
20 have proven that allocations affect the existing
21 wells that are there now, and I think that data
22 indicates an effect on new development wells.
23 Thank you.

24 CHAIRMAN LEMAY: Thank you very much.
25 Additional statements? Mr. Carr?

1 MR. CARR: I would like to make a very
2 brief statement on behalf of Amoco.

3 We've come before you today and we've
4 presented information on a pool-by-pool basis,
5 and we've done that because that's how we prorate
6 in New Mexico. So the information has been
7 presented to you, we submit in a format and
8 fashion consistent with our statutory scheme.

9 We recognize that purchasers may
10 nominate, but if you look at Order R-8170, you
11 also may take information from anyone else
12 knowledgeable about the gas market, and we
13 submit, as a major producer in the San Juan Basin
14 and these fields, we are a person with that kind
15 of knowledge.

16 We have come in here and we have
17 presented actual information on what we've
18 produced, we submitted it to you monthly, and we
19 have told you what we believe we need in terms of
20 an allowable so we can meet the market demand.
21 And certainly that is good, competent testimony
22 that you can consider in setting allowables.

23 On the contrary, we've had the Gas
24 Company come in and, yes, they have nominated,
25 and yes, they've nominated late, and yes, they've

1 admitted that they don't really know what the
2 demand figures are pool by pool. And when we're
3 looking at setting allowables for the next six
4 months, we submit that to do that you have to
5 look at the demand, and we've provided you the
6 best information we have available, and we would
7 request that you consider it in setting the
8 allowables for these pools.

9 CHAIRMAN LEMAY: Additional
10 statements?

11 MR. STOVALL: Just a brief one, Mr.
12 Chairman. Speaking on behalf of the Division,
13 the Division took a slightly different approach
14 this year in making its recommendations and
15 presentation to the Commission. In the past
16 we've attempted to make some adjustments to the
17 historic production data. This year the
18 Division, or this period the Division chose not
19 to do that. It chose to take hard numbers, do
20 the calculations, and then ask for more
21 information from operators.

22 I just wanted to make the point that
23 because the Division presented some preliminary
24 numbers to this Commission, it did so in
25 anticipation that there would be additional data

1 submitted and requests for adjustments from
2 industry, be it purchasers or producers. And we
3 are not making any specific recommendations with
4 respect to those adjustments, but simply making
5 it clear to the Commission, and everybody
6 present, that this was anticipated at the time we
7 made our presentation.

8 I would also state, to keep the issue
9 more simple, that we anticipate also doing
10 pool-by-pool proration and the factors that are
11 within the pools, and there certainly is a
12 relationship between other pools, that it is not
13 prorated pools being used to manipulate
14 nonprorated pools, and that sort of thing.

15 With respect to nominations by Gas
16 Company of New Mexico, it appears that the
17 nominations and the needs of Gas Company of New
18 Mexico can be satisfied, and that is our concern,
19 to make sure that any demand for New Mexico gas
20 can be met while still protecting correlative
21 rights.

22 And, finally, I would like to commend
23 those operators who, when they reach their
24 overproduction limits, take corrective action and
25 attempt to bring those pools back within

1 regulatory limits without enforcement action by
2 the OCD, because that's tough to do and we really
3 appreciate operators who comply with our rules
4 without us having to take further action.

5 CHAIRMAN LEMAY: Additional statements
6 in Northwest New Mexico allowables?

7 If not, we'll close that portion of the
8 hearing and open up this afternoon with Southeast
9 New Mexico. Remember, 1:00, upstairs in the OCD
10 conference room. We'll be set up up there.

11 [The noon recess was taken.]

12 CHAIRMAN LEMAY: Let's resume. We'll
13 take the easy one first, or we think it might be
14 easy. How about the Justis Pool with Meridian?

15 MR. KELLAHIN: Yes, sir, that one
16 should be easy; maybe.

17 CHAIRMAN LEMAY: You may proceed, Mr.
18 Kellahin.

19 MR. KELLAHIN: Thank you, Mr.
20 Chairman. Meridian Oil, Inc., proposes
21 adjustments for the Justis-Glorieta Pool. We are
22 seeking an adjustment that will provide for this
23 next proration period a minimum allowable of 600
24 Mcf a day, so that that will be comparable to
25 what has been established after notice and

1 hearing for the Jalmat and the Eumont Pools.

2 This is a temporary provision for us
3 with regards to the allowable because Meridian
4 has docketed in an Examiner case to more
5 specifically address this pool. We have asked
6 that prorationing be terminated in the Pool, and
7 until that issue is actually heard by the
8 Examiner and we present the full details of that
9 presentation, we would like to present part of
10 that discussion for you in a summary fashion this
11 afternoon, and recommend that the F1 factor be
12 adjusted so we, in fact, accomplish a minimum
13 allowable for this pool.

14 One of the items we're still addressing
15 with regards to the Examiner application is the
16 additional allowable is an incentive for
17 additional drilling, which includes infill
18 drilling. And by terminating prorationing we
19 may, inadvertently, preclude ourselves from an
20 infill well. We may have to modify our
21 application, but we're pursuing remedies with
22 regards to the pool before the Examiner, to
23 address our long-term solutions, and today's
24 presentation by Mr. O'Donnell is simply a summary
25 of his engineering study with regards to this

1 particular reservoir.

2 TOM O'DONNELL

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

5 EXAMINATION

6 BY MR. KELLAHIN:

7 Q. Mr. O'Donnell, for the record, would
8 you please state your name and occupation?

9 A. Tom O'Donnell. I am senior reservoir
10 engineer with Meridian Oil, Inc.

11 Q. Mr. O'Donnell, on prior occasions have
12 you testified before the Division?

13 A. No, sir.

14 Q. Summarize for us your education.

15 A. I have a bachelor's in science and in
16 petroleum engineering from Texas A & M
17 University.

18 Q. In what year?

19 A. I graduated in 1986.

20 Q. Summarize for us your employment
21 experience.

22 A. I worked approximately five years with
23 a major oil company out of Lafayette, Louisiana,
24 and have been with Meridian for approximately a
25 year and a half and have worked New Mexico for

1 approximately 10 months.

2 Q. During that period of time, have you
3 studied the Justis-Glorieta prorated pool in
4 Southeastern New Mexico?

5 A. Yes, I have.

6 Q. In addition to examining the
7 production, have you also been involved in
8 examining the reservoir performance itself?

9 A. Yes, I have.

10 Q. As a result of your studies, do you
11 have recommendations to the Commission with
12 regards to allowables to be established for this
13 pool for this upcoming proration period?

14 A. Yes. Our adjustment that we are
15 proposing would enable infill drilling in the
16 field. The current F1 factor is approximately
17 154 Mcf per day per 160 acres, and we cannot
18 justify infill drilling at that allowable.

19 MR. KELLAHIN: We tender, at this time,
20 Mr. O'Donnell as an expert witness.

21 CHAIRMAN LEMAY: His qualifications are
22 acceptable.

23 Q. Directing your attention, sir, to what
24 has been marked as Exhibit 1, would you identify
25 that for us?

1 A. Yes. This exhibit, the different
2 colors designate the different operators of the
3 pool. The orange outline is the outline of the
4 pool itself, and the different well symbols
5 designate--the triangle is nonmarginal, octagon
6 is marginal, and the plugged wells are
7 identified.

8 Q. Have you communicated with the other
9 operators in the pool concerning your request not
10 only to terminate prorationing but to establish a
11 temporary allowable that will encourage the
12 additional development you have under
13 consideration?

14 A. Yes, we have. We have sent
15 notification to all operators, and we are not
16 aware of any objection to our proposal at this
17 time.

18 Q. Have you received waivers from all
19 operators that offset the nonmarginal wells in
20 the pool?

21 A. Yes, I have.

22 Q. Show us on the display how you've
23 identified the nonmarginal wells.

24 A. The nonmarginal wells, as I mentioned,
25 are in the triangles and the marginal wells are

1 in the octagons.

2 Q. Let's turn now to Exhibit No. 2. Give
3 us a brief history and status report on the
4 pool.

5 A. As a brief history, the Justis Pool was
6 created in January 1950. The proration began in
7 1954. The last well was drilled in 1981. Prior
8 well to that was drilled in 1972, so, as you can
9 see, there just has not been a whole lot of
10 activity in the field in the recent past.

11 There are 21 completions with 14 active
12 wells currently.

13 Q. What is the spacing for the pool?

14 A. Okay. Its standard proration unit is
15 320 acres with--and that contains two F1
16 factors. The F1 factor, the proration units are
17 160s.

18 Q. Okay. Turn to Exhibit No. 3 and
19 identify and describe that for us.

20 A. Exhibit 3 is a spreadsheet listing the
21 seven operators in the pool with the operated
22 wells below each operator, location, status,
23 acreage, and the current average rate that I have
24 on there is according to the April through
25 September 1992 proration schedule, which is

1 actually lower. It is not a deliverability of
2 the wells, in other words. That is just the
3 average production during those times, which is
4 the summer months, which is typically going to be
5 much lower than the deliverability.

6 Q. Okay. Turn now to Exhibit No. 4.
7 You've summarized on this exhibit the specific
8 details that have justified, in your conclusion,
9 the request for an increase in the F1 factor?

10 A. Okay. Briefly, Item No. 1 mentions
11 that we do have the market for the pool, the
12 excess market for the pool. The original
13 prorationing of the pool was instituted in 1954
14 because the capacity exceeded the demand. That
15 is no longer the case, and we do not see that
16 being the case here in the near future.

17 Item No. 2, I just state there that
18 substantial changes in the pool production
19 development, purchasing, marketing, have occurred
20 over the history of the pool.

21 Item No. 3, and probably most
22 important, is the production limitations imposed
23 by the prorated allowables has discouraged and
24 will continue to discourage further developmental
25 drilling, workovers and other projects.

1 Q. You have some exhibits in the package
2 here to illustrate that item, don't you?

3 A. Yes, I do.

4 Q. Go on and finish your conclusions.

5 A. Okay. According to our study, infill
6 drilling alone is anticipated to add 14 Bcf of
7 gas reserves which would otherwise not be
8 recovered. The increase in the prorated gas
9 allowable will not impair correlative rights.
10 Meridian has contacted all seven
11 operators in the pool concerning this matter and
12 is not aware of any opposition to this
13 application. We have proposed that prorationing
14 of the pool should be terminated.

15 Mr. Kellahin also mentioned at the
16 beginning, we are looking at that right now to
17 see, since the standard proration unit in the
18 field is a 320, we will need to study that
19 further to see if we would rather establish a
20 minimum allowable rather than terminating it,
21 since if we do terminate it we will not be able
22 to simultaneously dedicate in the field.

23 The current prorated gas allowable of
24 this pool is lowest in Southeast New Mexico at
25 154 Mcf per day for 160. The next highest

1 prorated gas field is double this amount, which
2 is the Tubb field, I believe.

3 The current prorated gas allowable for
4 the overlying Jalmat Pool is five times higher at
5 817 Mcf per day for 160 and is actually
6 shallower, approximately 15 percent shallower.

7 Sid Richardson has advised Meridian
8 that the proposed increase in the pool production
9 will not adversely affect any well in the pool;
10 in other words, will not backup the sales line
11 pressure.

12 Q. For the record, what is Sid
13 Richardson's involvement with production in this
14 pool?

15 A. Sid Richardson is the gatherer of the
16 gas in the pool. We have a signed document from
17 Sid Richardson stating his position in the pool.

18 Q. Let's turn now to Exhibit No. 5 and
19 have you summarize for us the economics involved
20 that support your conclusion about the additional
21 allowable providing an economic incentive for
22 additional drilling in the pool.

23 A. Okay. Based on our study, we're
24 estimating reserves of infill wells being
25 approximately 650 million cubic feet per well.

1 Initial gas price we assume to be \$1.41 per MMBTU
2 based on the last 12-month average and held
3 constant throughout the line. 100 percent
4 working interest and 87-and-a-half percent net
5 revenue was assumed.

6 Completion costs of \$339,900.
7 Operating costs, \$1,500 a month escalated at five
8 percent. What I'm trying to show here is, at the
9 current rate or the current allowable of 154 Mcf
10 per day, we cannot pay out a project. It is
11 uneconomical to drill, and being that the last
12 well was drilled in 1982, it hasn't been much of
13 an incentive for anybody in the field--in the
14 pool.

15 At the proposed amount of 600 Mcf per
16 day, a project would have a rate of return of 26
17 percent and a payout of about three years; so,
18 we're trying to establish an incentive for infill
19 drilling in the field.

20 Q. Is the minimum allowable that you're
21 proposing for this well, for this pool,
22 consistent with the minimum allowables assigned
23 for wells in other pools?

24 A. The minimum allowable was established
25 recently for the Jalmat Pool which overlies the

1 Justis-Glorieta. It's approximately 1,500 feet
2 shallower. That minimum allowable was set at 600
3 Mcf per day.

4 Since that allowable has been
5 established, we've noticed an increase in
6 drilling in the Jalmat pool and we have also,
7 according to the latest proration schedule, have
8 noticed that the F1 factor has raised from 600 to
9 817, indicating a lot of activity and excess
10 production in the pool from nonmarginal wells.

11 Q. Turn now to Exhibit No. 6 and identify
12 and describe that display.

13 A. This is an example of an offset well,
14 really the only recent offset well if you want to
15 consider 1982 a recent offset. The Justis BC
16 Federal Com No. 2, which is the offset well,
17 offset the Eaton B 1 WN No. 1. I have the
18 locations marked there and you may reference this
19 plat.

20 The Eaton B 1 WN No. 1 is located in
21 12 (E), and the Justis BC Federal Com No. 2 is
22 located in 11 (H), so actually they were drilled
23 in adjoining 40-acre spaces. According to my
24 estimate, the Eaton B 1 WN No. 1--well, let me
25 back up. The cumulative production to date on

1 that well is 6.9 Bcf. The last production was in
2 February 1990. The cumulative production off the
3 offset well is 622 million cubic feet with an
4 estimated EUR of 1180 million cubic feet. You're
5 looking at an offset well recovery of
6 approximately 17 percent of the offset well.

7 Q. With this as an example of the success
8 of drilling an infill well in the spacing unit,
9 are there other opportunities to realize
10 additional reservoir recoveries from this pool if
11 there is sufficient allowable incentive to do so?

12 A. Yes, there are numerous 160-acre spaces
13 within the pool that are undrilled at this time.
14 There are also possibilities of wells that were
15 P & A'd prior to 1970 that we really don't have
16 good records on; that if the incentive was there,
17 we probably would be able to offset those and
18 justify that.

19 Q. Let me ask you to turn to Exhibit 7 and
20 summarize for us your conclusions concerning the
21 additional reservoir potential from an infill
22 program.

23 A. We're looking at, based on the 17
24 percent recovery of these infill wells, the
25 average well, according to our study, the average

1 well in this pool will recover approximately 3.8
2 Bcf. We're anticipating an additional--I'm
3 sorry. The anticipated offset recovery,
4 therefore, was 650 million cubic feet, and that's
5 what we based our economics on. The total
6 estimated pool EUR, estimating EURs on an
7 individual well basis and totaling them, is about
8 84.4 Bcf.

9 Anticipated additional recovery due to
10 the infill drilling is approximately 14.3 Bcf
11 which, at the current allowable, will not be
12 recovered.

13 Q. In addition to the infill potential, do
14 you find opportunities to drill spacing units
15 that either have been abandoned or have not yet
16 been drilled in the pool?

17 A. Could you repeat that?

18 Q. Yes. You've identified and described
19 for us the incentive that could be realized from
20 an infill program.

21 A. Uh-huh.

22 Q. Is there anything else you can do in
23 the reservoir to take advantage of the allowable,
24 working over old wells?

25 A. Yes.

1 Q. Drilling new wells that are not infill
2 wells?

3 A. Yes. Just some of the wells that
4 Meridian operates ourselves, we do see potential
5 in workovers. From the study we have performed,
6 we also see a lot of opportunity, and offset
7 operators in the pool, also, so we do seek
8 workovers, drilled wells and compression projects
9 in the future.

10 Q. Identify Exhibit No. 8 for us.

11 A. Exhibit No. 8 is strictly the well that
12 was, I guess, the second to the last well that
13 was drilled, the well that was drilled in 1971.
14 That's the Learcy McBuffington No. 7. It offset
15 the Learcy McBuffington No. 3 and the Langlie
16 Federal No. 1.

17 Those wells, the Learcy McBuffington
18 No. 3 is an example of what I mentioned earlier,
19 of a well that was P & A'd prior to 1970 and we
20 just, from our records, could not tell whether it
21 efficiently drained the well or not. Langlie
22 Federal No. 1 produced 2.4 Bcf prior to drilling
23 the Learcy McBuffington No. 7. It has produced
24 to date 2.8 Bcf.

25 The Learcy McBuffington No. 7 came in

1 and was drilled in 1971, and that well has cum'd
2 2.9 Bcf. So we're seeing--that's just another
3 example of an infill well being drilled
4 offsetting 160-acre spaces and being a
5 productive, economical well, and recovering gas
6 that would otherwise not be recovered.

7 Q. On Exhibit No. 9, have you summarized
8 the effects of establishing a minimum allowable
9 in the Jalmat gas field?

10 A. Yes. What we did is, we just took a
11 look at--because we're trying to establish an
12 incentive here in this pool for infill drilling,
13 so we wanted to take a look at some of the past
14 examples in Jalmat. Considering it's overlying
15 the field, we took a look at that, and we noticed
16 in 86 there were seven wells completed, 87 there
17 were four, 88 there were four wells, 89 is when
18 the allowable was set at 236 and there were 22
19 wells completed.

20 In 1990 the allowable was set at 236
21 and the fall allowable was set at 457. There
22 were 57 wells completed and, in 1990, you can see
23 it was raised to 600 and there were 22 wells
24 completed. So it has worked in that field as far
25 as promoting infill drilling.

1 Q. Have you solicited verification from
2 your marketing people with Meridian to find out
3 if you have a market for the additional gas that
4 may be produced under your proposed allowables?

5 A. Yes, Exhibit No. 10 is a signed letter
6 from Michael Wilkinson, regional supply
7 coordinator, stating that Meridian has the excess
8 demand and marketing this gas would be of no
9 problem to Meridian.

10 Q. In studying this area, do you see that
11 the additional allowable will cause any capacity
12 constraints for gathering production from the
13 pools or taking that gas to market?

14 A. No. Exhibit No. 11 and also Exhibit
15 No. 12 states Sid Richardson's position in the
16 pool. He states in Exhibit No. 11 that he has
17 reviewed the attached list of leases and/or wells
18 and has determined all the production is
19 currently under gas purchase agreement with
20 Richardson, with the exception of two wells that
21 Texaco operates.

22 Furthermore, Richardson would have the
23 capacity and be willing to purchase any
24 additional production from the leases should it
25 be available.

1 In Exhibit No. 12, we estimated the
2 increase from the existing wells to Sid
3 Richardson, and he is stating in this letter that
4 it will not adversely affect any well in the
5 field as far as increasing line pressure and
6 hurting the well's production.

7 MR. KELLAHIN: Mr. Chairman, that
8 concludes my examination of Mr. O'Donnell. We
9 move the introduction of his Exhibits 1 through
10 12.

11 CHAIRMAN LEMAY: Without objection,
12 Exhibits 1 through 12 will be admitted into the
13 record. Questions of the witness?

14 MR. STOVALL: Just a couple of easy
15 ones.

16 EXAMINATION

17 BY MR. STOVALL:

18 Q. You've talked in terms of a minimum
19 allowable which, in the case of the Eumont and
20 the Jalmat fields are permanently set minimum
21 allowables. That's not really what you're asking
22 for I hope here, is that correct, in this
23 hearing? Not the one you have coming up.

24 A. Correct. What we are asking for here
25 is an adjustment so we could increase our F1

1 factor to the proposed amount.

2 Q. For this proration period?

3 A. Correct.

4 Q. Do you know what adjustment would need
5 to be entered on Line 3 of Division Exhibit 1 to
6 result in the allowable you're seeking?

7 A. Yes. I think Mr. Kellahin has it. It
8 is approximately 81 million cubic feet per month.

9 Q. 81 million cubic feet?

10 A. A month.

11 Q. On Line 3?

12 A. Correct.

13 MR. KELLAHIN: And we need to verify
14 that. I'm not sure that's quite the right line
15 to put that number in.

16 MR. STOVALL: The question is, would
17 that be in the pool allowable or would that be
18 the adjustment, and I think he said that would be
19 the nonmarginal adjustment, is that correct?

20 MR. KELLAHIN: I think the pool
21 allowable becomes 136,000.

22 MR. STOVALL: That would be
23 approximately right if you had 81.

24 MR. KELLAHIN: So Line 3 is 136,000, I
25 think.

1 MR. STOVALL: Line 4 is 136,000.

2 A. I believe Line 3 is 81,000, roughly and
3 Line 4 would be 136.

4 MR. STOVALL: I just wanted the numbers
5 to plug in. Thanks.

6 CHAIRMAN LEMAY: Additional questions
7 of the witness? Commissioner Carlson?

8 EXAMINATION

9 BY COMMISSIONER CARLSON:

10 Q. Is this gas currently sold at the
11 wellhead to Sid Richardson?

12 A. This well is marketed by our group. It
13 is just transported by Sid Richardson.

14 Q. You have a transportation and possibly
15 a processing agreement with Sid Richardson?

16 A. Yes.

17 COMMISSIONER CARLSON: That's all I
18 have, Mr. Chairman.

19 CHAIRMAN LEMAY: Commissioner Weiss?

20 EXAMINATION

21 BY COMMISSIONER WEISS:

22 Q. How deep is it?

23 A. Roughly about 45, 4600 feet.

24 Q. Just as a matter of interest, did you
25 use any method besides analogy to determine the

1 incremental reserves?

2 A. Analogy was our main method. I guess
3 that would be our only method at this time.

4 Q. Did you contact the other operators?

5 A. Yes, we contacted every single operator
6 in the pool. We have received back four waivers
7 from the operators, stating they agree with the
8 amount of increase. Two have not responded, but
9 we did not receive any objection to our letter to
10 them.

11 COMMISSIONER WEISS: Thank you. That's
12 all I have.

13 CHAIRMAN LEMAY: I have no questions.
14 Any additional questions of the witness? If not,
15 he may be excused.

16 Is there anything additional in the
17 Justis field that anyone would like to present?
18 Any testimony or comments? Fine, we'll take that
19 field under advisement.

20 Gentleman, my records show I've got two
21 left, the Blinebry and the Indian Basin, is that
22 right?

23 MR. KELLAHIN: That's correct.

24 CHAIRMAN LEMAY: Let's do Blinebry
25 now. You may continue, Mr. Kellahin.

1 RONALD J. FOLSE

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

4 EXAMINATION

5 BY MR. KELLAHIN:

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

8 A. My name is Ronald J. Folse. I'm a
9 senior reservoir engineer with Marathon Oil in
10 Midland, Texas.

11 CHAIRMAN LEMAY: How do you spell your
12 last name?

13 THE WITNESS: F-O-L-S-E.

14 CHAIRMAN LEMAY: Thank you.

15 Q. Mr. Folse, on prior occasions have you
16 testified before the Commission in the allowable
17 hearings?

18 A. Yes, I have.

19 Q. And you testified in the February
20 hearing concerning the Blinebry Pool and its
21 recommended allowables for the summer proration
22 period?

23 A. Yes, sir, I have.

24 Q. Have you continued your study of that
25 reservoir and do you have recommendations for the

1 Commission concerning the allowables for this
2 next proration period?

3 A. Yes, I do.

4 MR. KELLAHIN: We tender Mr. Folse as
5 an expert.

6 CHAIRMAN LEMAY: His qualifications are
7 acceptable.

8 Q. Let's turn to your exhibits and
9 identify for me what's marked as Exhibit No. 1A.

10 A. Exhibit 1A is a letter Marathon mailed
11 out to all operators in the Blinebry Pool, and it
12 identifies the recommendation that Marathon
13 intended to make at this hearing today for an
14 increase in the nonmarginal well F1 factor, from
15 32,960 Mcf per month to 42,000 Mcf per month.

16 Q. Summarize for us the basis for the
17 request for additional adjustments in that pool
18 so that it comes up to the 42,000 volume. What's
19 the reason for the adjustment?

20 A. The reason for the adjustment is in
21 order to allow nonmarginal wells that Marathon
22 operates to be able to produce at the rates
23 they're currently producing at.

24 Q. What was the adjustment, if any, made
25 to the Blinebry Pool for the current proration

1 period that we're now in, do you recall?

2 A. The adjustments? I don't recall the
3 adjustment. The final F1 factor was 38,000 Mcf
4 per month.

5 Q. Turn now to Exhibit No. 2A and identify
6 and describe this display.

7 A. Exhibit 2A is the Blinebry Gas Pool
8 Allowables for the period October 1992 through
9 March 1993 as proposed in the preliminary
10 schedule from the OCD.

11 In the center column, and then in the
12 far right-hand column, is the revisions required
13 to result, as proposed by Marathon, to result in
14 a monthly acreage allocation factor of 42,000.

15 Q. Do you and the Division agree on the
16 proper number of nonmarginal acreage factors to
17 apply to the pool?

18 A. At this time, Marathon does agree with
19 the acreage factor of 6.75.

20 Q. Okay. And the calculation, then, on 2A
21 is simply information to show how to adjust the
22 numbers in order to arrive at the monthly average
23 allocation factor of the 42,000?

24 A. That's correct.

25 Q. All right. Let's turn now and have you

1 identify and describe Exhibit 3A for us.

2 A. Okay. Exhibit 3A is the Blinebry Pool
3 allocation or allowable for the pool indicated in
4 red on the exhibit. The green curve is the sales
5 value for the Marathon-operated well Lou Worthan
6 No. 9, and then the blue--purple as it's seen
7 here--is the overproduction statistics of the
8 well. And it's for the period January 1989
9 through June of 1992.

10 Q. What do you do with this information,
11 Mr. Folse?

12 A. This information Marathon uses to
13 maintain the status of the production from the
14 Lou Worthan No. 9, and to be able to compare it
15 with the current allowable for the well, and
16 compare the allowable versus sales and the
17 overproduction status of the well.

18 Q. And this well is one of the wells
19 currently classified as a nonmarginal well?

20 A. That's correct, yes.

21 Q. And it's in an overproduced status.
22 How many times overproduced is it?

23 A. It's slightly over twice overproduced.

24 Q. Let's turn now to the next display.
25 The exhibit is marked 4A. Identify and describe

1 that for us.

2 A. Exhibit 4A is the Blinebry Pool
3 production from the Marathon-operated Lou Worthan
4 No. 12 well. It is the same--similar format as
5 the previous exhibit indicates; the allowable
6 sales figures and the overproduction status for
7 the Lou Worthan No. 12 well.

8 Q. If the allowable adjustment is made as
9 Marathon proposes for this pool, would there
10 still be nonmarginal wells that are
11 capacity-restricted?

12 A. Yes, there will.

13 Q. Who has the other nonmarginal wells in
14 the pool?

15 A. Based on previous acreage factors of
16 10.75, we had the operators Hendrix Corporation,
17 of course Marathon, Mobil, Chevron, Arco, Exxon
18 and Texaco, Incorporated.

19 Q. How did you determine what adjustment
20 was required for this well for forecasting market
21 demand for the next proration period?

22 A. We looked at production for the period
23 in terms of its deliverability, its capacity to
24 deliver gas, and determined that they were
25 capable of delivering in excess of 42,000. We

1 then decided to go ahead with the recommendation
2 of 42,000 as an average.

3 Q. Have you received any objection from
4 any of the operators with regards to this
5 request?

6 A. We have not.

7 Q. You submitted this request to the other
8 operators following receipt from the Division of
9 the preliminary schedule that they published for
10 this next proration period?

11 A. Yes, we did.

12 MR. KELLAHIN: That concludes my
13 examination of Mr. Folse. We move the
14 introduction of his Exhibits 1A through 4A.

15 CHAIRMAN LEMAY: Without objection,
16 Exhibits 1A through 4A will be admitted into the
17 record. Questions of Mr. Folse?

18 MR. STOVALL: A couple of quick ones.

19 EXAMINATION

20 BY MR. STOVALL:

21 Q. Did I hear you say that the pool was
22 overproduced or just some wells in the pool were
23 overproduced?

24 A. Some wells in the pool,
25 Marathon-operated.

1 Q. The only other question I've got is how
2 you arrive at the specific adjustment factor.
3 What basis do you have for saying that the demand
4 on production from that pool is likely to go up
5 by that amount, given the trend over the last
6 three years for the pool? It's been
7 underproduced for the last three years during the
8 comparable period. What's your basis for
9 anticipating this higher level of production?

10 A. The basis for our recommendation is
11 looking at recent performance, in particular
12 since October of 1991, where we're able to--or
13 where the allowables were increased to the 38,000
14 level. The two wells in particular here, the Lou
15 Worthan No. 9 and the No. 12 are capable of
16 producing, in the early part of that period, over
17 50,000 Mcf per month.

18 As seen in Exhibits 3A and 4A, they are
19 still above the 38,000. All the way through June
20 of 1992, the Lou Worthan No. 9 produced 45,044
21 Mcf in that month, and No. 12 produced 42,745.
22 Therefore, we felt that 42,000 would be--

23 Q. In other words, what you're looking at
24 is the ability of the better wells in the pool
25 and making the adjustments to increase their

1 allowable, rather than looking at the total
2 production from the pool in terms of a market
3 demand analysis, if you will, is that correct?

4 A. That's correct. At this time we were
5 unable to determine exactly which numbers were in
6 the acreage factor and which ones we needed to
7 look at and we weren't able to do a nonmarginal
8 well versus a marginal well evaluation.

9 Q. Are there market conditions which will
10 cause total production and purchasers from the
11 field to increase over previous like periods?

12 A. I believe I'm not ready or able to
13 answer the marketing questions.

14 MR. KELLAHIN: We did bring a marketing
15 expert. Mr. Gilbert is here to address any
16 marketing questions for production from the
17 pool.

18 MR. STOVALL: That's all I've got,
19 then.

20 CHAIRMAN LEMAY: Additional questions
21 of the witness? Commissioner Carlson?

22 COMMISSIONER CARLSON: No questions.

23 CHAIRMAN LEMAY: Commissioner Weiss?

24 COMMISSIONER WEISS: No questions.

25 EXAMINATION

1 BY CHAIRMAN LEMAY:

2 Q. Did you say the current F1 factor is
3 38,000?

4 A. Yes, sir.

5 Q. I'm a little confused on your 42,000
6 figure. Is there any basis in fact for that or
7 is that just kind of a number that's a little bit
8 below your top-capacity wells but I guess above
9 historical production in the pool?

10 A. That's correct.

11 Q. If the pool is underproduced, why would
12 you not overproduce your wells if you need
13 additional allowables? Is this a recent market
14 addition? I know you're not a marketer. What
15 I'm wondering about is, I'm trying to focus that
16 42,000 figure and compare it to the underproduced
17 status of the pool and the fact that you're not
18 six times over in any well, you're two times over
19 or two or three on the other well.

20 A. That's correct.

21 Q. You've got additional allowable right
22 now that you haven't produced, isn't that true,
23 if you're talking about overproduced,
24 underproduced limits?

25 A. In terms of the two wells we're

1 discussing here, they are producing over the
2 allowable at the current time.

3 Q. But you haven't reached your six times
4 where there's a shut-in notice, is that right?

5 A. That is correct. Right.

6 Q. Are any of your wells in trouble or are
7 these your most overproduced wells?

8 A. No, these are the most overproduced
9 wells.

10 Q. So you could actually overproduce your
11 wells more, given a lower allowable, and
12 therefore have hard information for the
13 Commission to show that you are closer to
14 producing the allowable we've given you in the
15 pool, I guess, pool-wide?

16 A. Right. The only question that comes
17 into play, then, is the balancing period, which
18 we've got a balancing period coming up the end of
19 March of 93 where, depending on the allowables,
20 we would have to then--well, prior to the end of
21 that balancing period we would have to curtail
22 production from these wells.

23 Q. Unless you got higher allowables--

24 A. Unless we got higher allowables.

25 Q. --based on increased production? You

1 can't overproduce your wells more, in other
2 words, to justify higher allowables? If you were
3 to do that this six months, you could come to the
4 February hearing, couldn't you, and say, "We're
5 now five to six times overproduced and we've
6 utilized our maximum overproduction"?

7 A. For these wells in particular, they are
8 producing at their current deliverability rates,
9 maximum deliverability rates.

10 Q. Right now they are? Which is 38,000?

11 A. Which is in excess of 42,000.

12 Q. What kind of decline do you see on
13 those wells?

14 A. It's approximately 15-percent decline
15 per year.

16 Q. So you would anticipate they would not
17 be capable of doing that six months from now;
18 they would be seven-and-a-half percent lower?

19 A. Correct.

20 CHAIRMAN LEMAY: Any other questions of
21 the witness? You may be excused. Thank you.

22 Is that all the testimony we have on
23 the Southeast now?

24 MR. KELLAHIN: I'm going to call Mr.
25 Gilbert for a brief statement on the marketing.

1 CHAIRMAN LEMAY: Fine.

2 JOHN P. GILBERT

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

5 EXAMINATION

6 BY MR. KELLAHIN:

7 Q. Would you please state your name and
8 occupation.

9 A. My name is John P. Gilbert. I'm a
10 natural gas marketer for Marathon Oil Company.

11 Q. Have you testified before in that
12 capacity and qualified before this Commission on
13 prior instances to provide testimony on market
14 information for the Blinebry Pool?

15 A. Yes, sir, I have.

16 MR. KELLAHIN: We would tender Mr.
17 Gilbert as an expert in gas marketing.

18 CHAIRMAN LEMAY: His qualifications are
19 acceptable.

20 Q. Give us a quick summary or an overview
21 of the gas market situation in the Blinebry
22 Pool.

23 A. For the Blinebry Pool, it's a
24 producers' dream out there. You have four or
25 five options at almost any location. You have

1 the El Paso system, you've got the Warren
2 system. Our wells are nonmarginal wells and tied
3 to Northern Natural Gas, so there are three or
4 four options in the field.

5 Q. From your perspective, are you in a
6 position to know if other operators are having
7 any kind of difficulty marketing their gas or
8 consciously staying out of market and accruing
9 underproduction for their nonmarginal wells?

10 A. No, sir. There's no market problem out
11 of the Blinebry Pool whatsoever.

12 Q. You're in a position to be aware of
13 that?

14 A. That's right.

15 Q. You would know that if it was
16 occurring?

17 A. I think so.

18 Q. The volume of additional gas that would
19 be produced in the pool if this allowable
20 adjustment is made by the Commission, is that an
21 additional volume of gas that can be marketed?

22 A. Easily so.

23 Q. Is there a market demand for gas from
24 this pool that exceeds these allowable requests
25 that Marathon is making?

1 A. Yes, sir, it is. That's a particularly
2 attractive area to market out of. You have gas
3 that can flow into the El Paso system going west
4 to California, or it can come back in through the
5 Waha hub for delivery into the Texas intrastate
6 markets, or it can stay on the northeast system
7 flowing northeast. So there's plenty of demand
8 and plenty of opportunity to market gas out of
9 this particular area.

10 Q. If you don't take gas out of this
11 reservoir to satisfy that market demand, where do
12 you get the gas?

13 A. Well, from other pools we have, we can
14 satisfy the demand. There's plenty of market. I
15 receive phone calls all through the month looking
16 for gas in this area and wanting to know, at all
17 times, if gas is available. So there's plenty of
18 demand in this area.

19 MR. KELLAHIN: That concludes my
20 examination of Mr. Gilbert.

21 CHAIRMAN LEMAY: Questions of the
22 witness?

23 MR. STOVALL: I have a question for
24 clarification.

25 EXAMINATION

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1 BY MR. STOVALL:

2 Q. If there's plenty of demand for gas,
3 how come the pool has not produced its allowable
4 up to this point, or at least for this period?

5 A. I know everything that we have, there's
6 plenty of market for that gas. I can't tell you
7 why others wouldn't be. I don't think they are.
8 I think everything that people are selling out
9 there, there's a market for everything out
10 there. I would be surprised if anybody was
11 having a difficult time marketing their gas out
12 there.

13 Q. I understand that nobody is having
14 trouble marketing, but my question is, and I'm
15 going to hand you what we've talked about as the
16 table that went out for the last three years'
17 comparable periods. And if you'll look under the
18 Blinebry column, you'll see the allowable is Line
19 1, I believe, and actual sales and production is
20 Line 2, for each period.

21 In each case the production and sales
22 is below the allowable; so my question is, why do
23 you need more allowable than say even last year's
24 comparable period, when the pool hasn't sold what
25 it's got available?

1 A. From Marathon's point of view,
2 obviously, we like to produce our wells at full
3 rate to capture this market or more market.

4 Q. In other words, you don't think
5 Marathon is the contributor to the pool's
6 underproduction?

7 A. I can assure you that's not the case.

8 MR. STOVALL: That's all I need.

9 CHAIRMAN LEMAY: Additional questions?
10 Commissioner Carlson?

11 EXAMINATION

12 BY COMMISSIONER CARLSON:

13 Q. Are you selling this gas on the spot
14 market?

15 A. This particular package here right now
16 is going on spot. This is a package that is
17 pretty advantageous for us because I use gas. I
18 have term market on Northern, and I use this gas
19 as backup gas in case my other market fails for
20 some reason; i.e., a compressor or plant on
21 Northern goes down. So, I use this as my
22 insurance gas to back up, particularly with other
23 markets we have. So this particular package of
24 gas is sold on spot.

25 Now there is--we're looking at

1 opportunities to turn this gas up, and they're
2 abundant out there. But this month, in fact
3 yesterday or the day before yesterday yet, I sold
4 it as spot.

5 COMMISSIONER CARLSON: That's all.

6 CHAIRMAN LEMAY: Commissioner Weiss?

7 COMMISSIONER WEISS: No questions.

8 CHAIRMAN LEMAY: I've got one.

9 EXAMINATION

10 BY CHAIRMAN LEMAY:

11 Q. Mr. Gilbert, it doesn't fit, and let me
12 tell you why. You say, quote, I think, Marathon
13 likes to produce their gas at full rate, and yet
14 the previous witness testified that you have not
15 reached your six times overproduction limit on
16 any of your nonmarginal wells, and there is some
17 restricted deliverability to Marathon's wells.
18 In other words, you can't produce them more.

19 If you have the market, have room to
20 produce them more, why haven't you done that?
21 That doesn't fit with what you're saying, that
22 you produce your wells at full rate.

23 A. I can say that I know these wells have
24 been blown wide open and we've been marketing
25 this gas. We have not had to choke back these

1 wells particularly, the Lou Worthan 9 and 12
2 wells.

3 Q. Then it must be that you are producing
4 them at top rate and there is no restricted
5 capacity at 42?

6 A. At 38.

7 Q. At 38, yes. No restricted capacity at
8 38.

9 MR. STOVALL: Regulatory restriction,
10 do you mean, Mr. Chairman?

11 Q. What I'm trying to find, if you're
12 producing them at full-bore and you haven't
13 exceeded the six times over, that then you should
14 not have any unused deliverability?

15 A. Today, that's correct.

16 Q. And yet I thought the other witness
17 said--and maybe I'm wrong, I'll have to check the
18 record--that there would be unused deliverability
19 at 42, and yet we're at 38 and there's no unused
20 deliverability.

21 Do you see where I'm having a problem?

22 A. I think so. I think that I do. I'm
23 not sure I can address that.

24 Q. I'm not sure that you can, either. The
25 puzzle doesn't fit; that's all. You see my

1 problem in trying to analyze both statements.

2 MR. STOVALL: Let me ask one more
3 question if I might, Mr. Chairman, to see if I
4 can make that more succinct.

5 FURTHER EXAMINATION

6 BY MR. STOVALL:

7 Q. Has your ability to market gas been in
8 any way restricted by the proration system today,
9 been restricted from production as a result of
10 limits, shut-ins required by the Division?

11 A. Not to date. But I know the two wells,
12 the Lou Worthan No. 9, we're watching it
13 closely. I think we're approaching that point,
14 with two and a half sometimes now, three times
15 now, we're going to be approaching that point
16 pretty soon where we would be forced to shut that
17 well in, at its current rate.

18 MR. STOVALL: That's all.

19 CHAIRMAN LEMAY: That's all I have.

20 MR. KELLAHIN: Nothing further.

21 CHAIRMAN LEMAY: Thank you very much.

22 We appreciate it, Mr. Gilbert.

23 Anything else in the Blinebry Field?
24 Statements?

25 Okay. Let's go to the Indian

1 Basin-Upper Penn.

2 MR. CARR: Mr. Chairman, at this time
3 Chevron calls Mark Corley to present testimony
4 concerning allowables for the Indian Basin-Upper
5 Penn Gas Pool.

6 **M. S. (MARK) CORLEY**

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

9 EXAMINATION

10 BY MR. CARR:

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

13 A. Mark Corley.

14 Q. Where do you reside?

15 A. Midland, Texas.

16 Q. By whom are you employed and in what
17 capacity?

18 A. Currently, as of August 1st, I'm
19 employed by Warren Petroleum, which is a gas
20 processing subsidiary of Chevron. But for the
21 purposes of this hearing, we will dwell on my
22 experience as a gas engineer prior to my new
23 assignment.

24 Q. And how long have you been a gas
25 engineer for Chevron?

1 A. Two years.

2 Q. Have you previously testified before
3 the Oil Conservation Commission?

4 A. Yes, I have.

5 Q. In fact, you testified at the hearing
6 six months ago concerning allowables for the
7 current allowable period, is that correct?

8 A. Yes, sir.

9 Q. At that time you were qualified as a
10 gas engineer?

11 A. Yes.

12 Q. Could you advise us as to what a gas
13 engineer with Chevron does?

14 A. A gas engineer for Chevron is involved
15 with the obtaining of gas contracts for
16 casinghead gas, and also for hooking up new gas
17 wells to gas pipelines. We work real closely
18 with our gas marketing group on pricing tends,
19 forecasts and production problems. We look very
20 closely at our regulatory reviewing allowables
21 and participate in hearings.

22 Q. Were you responsible for monitoring the
23 allowables for the prorated pools in Southeast
24 New Mexico?

25 A. Yes, I was.

1 Q. Before you became a gas engineer, what
2 department did you actually work with?

3 A. I worked in the gas marketing group for
4 Chevron in Houston.

5 Q. Are you familiar with how gas
6 prorationing works in New Mexico?

7 A. Yes.

8 Q. And have you reviewed the preliminary
9 allowable estimates for the period October 1992
10 through March 1993 for the Indian Basin-Upper
11 Penn Gas Pool?

12 A. Yes, I have.

13 MR. CARR: Are the witness'
14 qualifications acceptable?

15 CHAIRMAN LEMAY: His qualifications are
16 acceptable.

17 Q. Mr. Corley, would you state what
18 Chevron's purpose is in participating in this
19 hearing today?

20 A. First of all, Chevron continues to
21 appreciate the opportunity to provide input to
22 the Commission on setting the allowables. We
23 feel like the current system is very good for our
24 company, and we appreciate the opportunity to
25 provide input.

1 We're seeking today to provide input on
2 the Indian Basin-Upper Penn Pool. Our testimony
3 will show that we agree with the preliminary F1
4 factor that was published by the OCD. We feel
5 that that allowable, without an adjustment,
6 appropriately reflects the producing capability
7 of all the wells in the pool and would allow all
8 the operators to produce their proportionate
9 share from the reservoir.

10 In addition, we do have ongoing
11 workover programs in progress. We feel like for
12 the next six months the preliminary allowable
13 will provide opportunities to evaluate previous
14 workovers and also to continue with our workover
15 program.

16 Q. In your opinion, will adoption of
17 allowables equal to the preliminary figures
18 promulgated by the Division permit not only the
19 Division but operators to manage their problems
20 within this pool?

21 A. Yes, I do.

22 Q. Let's go to what has been marked as
23 Chevron Exhibit No. 1. Would you identify that,
24 please?

25 A. The main purpose of Exhibit 1 is to

1 give the relative position, via a bar graph, on
2 May's production. Monthly production is noted on
3 the left axis as Mcf per month.

4 We are showing monthly production by
5 operator for the 33 active wells in the Indian
6 Basin-Upper Penn. The first bar is Marathon,
7 which we show this bar represents about 35
8 percent of the field's production or 13 active
9 wells.

10 The next bar we show is Chevron, which
11 is also approximately 35 percent of the pool's
12 production, or 10 active wells.

13 Next we have Oryx with five wells or 18
14 percent. M. W. Petroleum, two wells at eight
15 percent; Texaco at three percent with one well,
16 and in the other column there are two wells
17 included in there.

18 To reiterate, the purpose is to show
19 what the relative position of each operator is in
20 the field.

21 Q. All right, Mr. Corley. Let's move now
22 to Chevron Exhibit No. 2. Would you identify
23 this, please?

24 A. Exhibit 2 is basically a tabular form
25 of the preliminary exhibit prepared by the OCD.

1 It highlights the calculations involved in coming
2 up with the allowable or the F1 factor.

3 Q. Now, these figures reflect the Oil
4 Conservation Division figures that were submitted
5 with the docket, is that correct?

6 A. That's correct.

7 Q. And today, a slight increase in these
8 figures was announced by the witness for the OCD?

9 A. Yes.

10 Q. What impact does that have on your
11 presentation?

12 A. Actually, we prefer the previously
13 utilized numbers, but we do realize that the new
14 method for determining the allowables was a good
15 move. We think the numbers are more accurate,
16 and considering the impact on our testimony will
17 only be about 165 Mcf per day per 640 acres, we
18 would agree with what the State has proposed
19 today.

20 Q. Now, how do the figures set forth on
21 this exhibit compare to the actual allowable
22 rates authorized a year ago?

23 A. For the same period last year, as
24 footnoted on the bottom, we had an equivalent F1
25 factor of 184,875.

1 Q. And you are recommending that the
2 figures set forth on Exhibit 2 be utilized in
3 setting the allowable for the next allowable
4 period?

5 A. Yes, and we would also emphasize that
6 Chevron is not seeking an adjustment to be made
7 to the pool. Both columns are actually equal,
8 and we want to make sure you know that we agree
9 with what the preliminary estimates are.

10 Q. Anything else you want to present from
11 Exhibit 2?

12 A. No.

13 Q. All right. Let's move to your Exhibit
14 No. 3. Would you identify what this is?

15 A. Exhibit No. 3 is a production plot of
16 Chevron's average nonmarginal well. Basically,
17 we took all of our nonmarginal wells, we took
18 that number and divided by the number of wells to
19 give you an idea of the average production of our
20 nonmarginal well.

21 Q. How many wells are we talking about
22 here?

23 A. Three wells.

24 Q. All right. Let's review this exhibit
25 for the Commission.

1 A. The basis on which we call the
2 nonmarginal, is they are nonmarginal under the
3 current summer allowable. On the left column we
4 have Mcf per month versus time. The dark colored
5 bar is production average per month. The light
6 colored bar to the right is our forecast for the
7 upcoming allowable period. The line graph with
8 the squares is the allowable plotted versus
9 time.

10 Looking over the exhibit, we would like
11 to emphasize that Chevron, in the interest of
12 correlative rights, we do produce our wells at
13 constant rates during the summer and the winter
14 periods, so correlative rights is a concern of
15 ours.

16 In addition, we would like to note some
17 of the anomalies in the production graph.
18 September of 91 indicates a drop in production.
19 That's attributable to a 12-day plant shut in.
20 Moving over to December of 91, that was a six-day
21 plant upset. January of 92, we had another plant
22 upset for six days.

23 Continuing to the right, in July of 92
24 we have a shortage in production. That is when
25 we did a workover on one of the wells plotted

1 there, so we were down for two weeks while the
2 well was being worked over. Continuing to the
3 right, we'll go over the forecast.

4 The forecast incorporates the results
5 of two workovers and also a planned workover from
6 November of 92. The November of 92 forecast is
7 short because of that two weeks anticipated down
8 time, and we show partial recovery of our
9 workover by January of 93.

10 February of 93 has a drop due to the
11 shortage of the days in the month. March of 93,
12 we have knowledge of another plant outage of six
13 days. So, our forecast is based on results from
14 previous workovers and also with knowledge of
15 upcoming events having to do with the plant
16 processing of the gas.

17 One more thing, the top bar for the
18 current period reflects a figure of 173,328.
19 That is the allowable that's plotted there.

20 Q. What does it tell you about that
21 preliminary allowable figure?

22 A. The preliminary allowable is adequate
23 for Chevron, and to continue with our workover
24 program.

25 Q. Now, the forecast portion of this

1 exhibit, is this actually representative of the
2 peak production from each of the wells which are
3 averaging into this exhibit?

4 A. It's the best we could estimate. Peak
5 production could possibly come in February or
6 March. Typically these workovers require quite a
7 bit of recovery time because we kill the well
8 with water on the back side. Typically it takes
9 a month or two to recover that load water back,
10 so there is some evaluation in time needed to
11 evaluate that.

12 Q. This graph shows an average for
13 nonmarginal wells. Are any of your wells
14 currently being shut in because of the allowable
15 rate?

16 A. No.

17 Q. What workovers did Chevron do in the
18 last six months?

19 A. We completed a workover which we had
20 talked about at the last hearing on the Elgin
21 Federal No. 1. Production before the workover
22 was approximately 4,200 Mcf per day. Results of
23 the workover are still being evaluated, but at
24 this time it's making approximately 5,000 Mcf.
25 That's an increase of 800 Mcf per day.

1 The next well we worked on was in July
2 of 92; it was the Vogel Flats Unit No. 6.
3 Production prior to the workover was
4 approximately 4,400 Mcf per day. Current
5 production still under evaluation is 5,400 Mcf
6 per day, which equates to an increase of about a
7 thousand Mcf per day. The forecast allowed for
8 that well to come on up, about 200 more Mcf per
9 day.

10 Q. Let's move to Chevron Exhibit No. 4.
11 Could you explain to the Commission what this is?

12 A. Exhibit No. 4 is the same format as the
13 last exhibit. We have Mcf per month plotted
14 versus time. We wanted to show the Commission
15 what our planned workover and its forecast looks
16 like for the upcoming allowable period. We plan
17 to work over the Vogel Flats Unit No. 4. You can
18 note the same production anomalies in the black
19 curves, the plant shut-ins.

20 Moving on to the forecast, we show a
21 drop in production for November because of the
22 two weeks down time. We show partial recovery by
23 January, then the short month in February
24 affecting our production, and also March, the
25 planned shutdown, lowering our production level.

1 Q. And workovers that have been performed
2 by Chevron to date, have you been able to return
3 a well or take a well to a nonmarginal status
4 from a marginal status?

5 A. No.

6 Q. Let's go now to what has been marked as
7 Exhibit No. 5, and identify that, please.

8 A. Exhibit No. 5, we talked with other
9 operators in the field and we would like to
10 submit that letter in our testimony. M. W.
11 Petroleum is offering their support to the
12 Commission for the preliminary allowables, as is
13 Chevron.

14 Q. Did you contact other operators
15 concerning your presentation here today?

16 A. Yes, we did.

17 Q. Who did you contact?

18 A. We talked with Oryx and Marathon, and
19 we were unable to talk with Texaco.

20 Q. In your experience, has Chevron had any
21 problem marketing the gas it can produce from
22 this pool?

23 A. Our marketing strategy is very similar
24 to Marathon. We would like to attain long-term
25 markets if possible. We do see a demand each

1 month for gas from the Permian Basin, as Mr.
2 Gilbert testified, so our marketing is not
3 constrained by a lack of demand.

4 The only thing that would hinder our
5 marketing efforts would be the gathering
6 processing of the gas. Unfortunately, this gas
7 has to be processed before it's marketable, so we
8 do have a few problems when the plant goes down,
9 being able to recover from these. And to get a
10 long-term market we need a stable supply base.

11 Q. If you can market all the gas you can
12 produce, why should you have an allowable at a
13 rate less than what any well in the pool can
14 produce?

15 A. We feel like the allowable should be
16 based on not just solely the best producing wells
17 in the pool; we feel like the other, let's say,
18 29 wells in the pool are effectively draining
19 their acreage under the current allowable. So we
20 feel like the allowable should be set more on an
21 average basis for the whole pool.

22 Q. In your opinion, would an order
23 adopting allowable rates equal to the preliminary
24 nominations that were sent out with the Oil
25 Conservation Division docket, would allowables at

1 that rate be in the best interest of
2 conservation, the prevention of waste and the
3 protection of correlative rights?

4 A. Yes, I do.

5 Q. Were Exhibits 1 through 5 either
6 prepared by you or assembled under your
7 direction?

8 A. Yes, they were.

9 MR. CARR: At this time we would move
10 the admission of Chevron Exhibits 1 through 5.

11 CHAIRMAN LEMAY: Without objection,
12 Exhibits 1 through 5 will be admitted into the
13 record. That concludes my examination of Mr.
14 Corley.

15 CHAIRMAN LEMAY: Thank you, Mr. Carr.
16 Mr. Kellahin?

17 MR. KELLAHIN: Thank you, Mr.
18 Chairman.

19 EXAMINATION

20 BY MR. KELLAHIN:

21 Q. I would like to reduce the proposals of
22 the various companies to a daily producing rate
23 simply because the numbers are smaller and it's
24 easier for me. When you take the 175,000 figure
25 you've used, that's about 5.7 million a day?

1 A. Yes.

2 Q. Are you aware of Oryx and Marathon's
3 proposal to ask the Commission for an allowable
4 adjustment that would result in the nonmarginal
5 wells producing at 6.5 million a day?

6 A. Yes, I'm aware of this.

7 Q. You talked about, in your concluding
8 statements to Mr. Carr, effective drainage of the
9 reservoir. Have you been involved, on behalf of
10 your company, with any of the reservoir studies
11 that were undertaken by the various companies in
12 the Indian Basin-Upper Penn Pool?

13 A. Yes, sir, I have. There is a task
14 force that Chevron has that I am the chairman of,
15 in which we look at the reservoir management of
16 the Indian Basin.

17 Q. When you look at the reservoir
18 management, do you agree that Chevron is
19 positioned in the reservoir to be in the most
20 favorable position in the reservoir in terms of
21 its structural position in relation to the water
22 encroachment?

23 A. Yes.

24 Q. And what is that answer, then? Are you
25 in the most favorable position, structurally, in

1 the reservoir?

2 A. Yes.

3 Q. As the reservoir is depleted, those
4 spacing units and gas wells that are closer to
5 the water front are going to be watered out
6 first, are they not?

7 A. That's what's been predicted.

8 Q. Under that prediction, then, regardless
9 of the allowable schedule set by the Commission,
10 the Chevron wells in the up-structure position
11 are going to be the last producing wells in the
12 reservoir?

13 A. We can't say that for sure.

14 Q. But that is the probability with the
15 data at this point in time?

16 A. Predictions are predictions. Chevron's
17 well could water out within the next few months
18 just as well as one of Marathon's. The water
19 table is very hard to predict where it's going to
20 go.

21 Q. When we look at marketing of the gas,
22 if the allowable were set at the 6.5 million a
23 day, if Chevron had the capacity to produce at
24 those allowable levels, would you have a market
25 for that gas?

1 the reservoir?

2 A. Yes.

3 Q. As the reservoir is depleted, those
4 spacing units and gas wells that are closer to
5 the water front are going to be watered out
6 first, are they not?

7 A. That's what's been predicted.

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9 of the allowable schedule set by the Commission,
10 the Chevron wells in the up-structure position
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17 well could water out within the next few months
18 just as well as one of Marathon's. The water
19 table is very hard to predict where it's going to
20 go.

21 Q. When we look at marketing of the gas,
22 if the allowable were set at the 6.5 million a
23 day, if Chevron had the capacity to produce at
24 those allowable levels, would you have a market
25 for that gas?

1 A. Yes.

2 Q. What is the criteria that Chevron uses
3 to determine that the allowables should be set at
4 the 173,000 number, the 5.7 million a day number?

5 A. We basically look at the workovers we
6 have planned and also how the other wells are
7 performing in the field to try to see how that
8 allowable is going to affect production in the
9 upcoming months.

10 Q. If the allowable is set by the
11 Commission at the higher rate requested by Oryx
12 and Marathon, the 6. million a day in terms of
13 reservoir share, do you see any impairment of the
14 correlative rights of Chevron if that occurs?

15 A. Yes, we do. We feel it's too high.

16 Q. Describe for me how you would be
17 impaired.

18 A. We feel like it is a drainage situation
19 and that through further investigation that we
20 could probably show that there is a drainage
21 concern.

22 Q. Correspondingly, if the allowables are
23 lower, then regardless of the drainage component
24 in the reservoir, Chevron will get the most gas
25 out of that reservoir, would it not?

1 A. Rephrase your question for me.

2 Q. I'll see if I can repeat it. Let's go
3 back to the drainage issue. Let me try it this
4 way. Has the reservoir study undertaken by the
5 working interest owners quantified the amount of
6 drainage that occurs at various producing rates?

7 A. Basically, it shows that the reservoir
8 is not homogeneous, and that each well is going
9 to have an individual deliverability. And if you
10 want to base allowables that assume that all
11 wells are going to produce equally, then it would
12 be wrong for this reservoir, in Chevron's
13 opinion. We feel like in future hearings, if we
14 do get the drainage, we may consider adopting a
15 deliverability formula for this pool, if we have
16 constant problems with who can produce what and
17 the best well setting the allowables.

18 Q. Am I correct in remembering the status
19 of that study at this point shows that the
20 greatest ultimate recovery is achieved in the
21 reservoir if the well is produced at capacity?

22 A. What do you mean by "capacity"? Is
23 that when everybody puts compressors on, or the
24 plant inlet compression is set at a certain level
25 or-- Basically, there are a lot of factors

1 involved in this reservoir that has to do with
2 this plant and how the deliverability is affected
3 at the wellhead.

4 Q. Remove the surface limitations of
5 production from the reservoir. Assuming
6 absolutely open flow of these gas wells. Am I
7 correct in remembering that the greatest ultimate
8 recovery is achieved in this reservoir if those
9 gas wells are produced at capacity?

10 A. I wouldn't agree to that. Chevron does
11 not agree that it's in the best interest of all
12 the operators to accelerate production.

13 Q. At the allowable level that you're
14 proposing without an adjustment, will you have
15 any of your nonmarginal wells that are curtailed
16 below their capacity to produce?

17 A. It depends on the workover results. We
18 possibly could if we were a little bit more
19 successful. With our workover program, we hope
20 to obtain better results, but the first two wells
21 we've done just does not justify going for an
22 allowable that is based on a forecast that we
23 can't stand by. So, we hope in the future to be
24 very successful with our workovers, but it's
25 possible that we could be constricted.

1 Q. Current situation without the
2 workovers, then, none of your nonmarginal wells
3 are going to be curtailed if the Commission
4 adopts your proposed level of allowables?

5 A. Not considering-- It's tough to look
6 at, without considering the workovers. The
7 workovers have already been done. We will do the
8 workovers we have planned.

9 Q. Without that additional deliverability
10 factor in the wells based upon these workovers
11 that are being undertaken, the current status is
12 that you don't have any well going into the next
13 proration period that is going to be curtailed if
14 we establish the allowables at 5.7 million a day?

15 A. We could possibly if we didn't have
16 that plant shut in. We had to account for that.
17 I wish my line would have been above the bar, but
18 with a short production month in February and
19 also the March down time, the pool itself is
20 going to be short.

21 When you start looking at the winter
22 allowables for next year, you're going to see
23 that sales are down because of that.

24 Q. If the Commission adopts the
25 Oryx/Marathon proposal at 6.5 million a day, then

1 for your spacing units you're going to generate
2 some excess allowable, some underproduction
3 credit, if I can characterize it in that fashion?

4 A. We don't agree with it but we would
5 continue to produce our wells because we feel
6 like it's a correlative right situation.

7 Q. Doesn't that differential, between the
8 allowable assigned and what your wells will do,
9 provide the economic incentive for Chevron to do
10 what Oryx and Marathon have already done?

11 A. We feel it's too high. We don't need
12 that much. The preliminary allowable estimate,
13 as we've already shown through testimony, is
14 adequate.

15 Q. Describe for me, without prolonging the
16 discussion, what causes you to reach that
17 conclusion that that allowable is reasonable?

18 A. We looked at all the data, we prepared
19 our exhibits, we've already presented testimony.
20 You can see from our nonmarginal wells and our
21 forecast that we have actually been very
22 conservative because the 5,700 is still very
23 adequate for us. We feel that our exhibits and
24 our testimony stand alone.

25 Q. Is that number affected by market

1 demand?

2 A. Not as much as has been portrayed
3 today. There's other factors. We feel like
4 there are some things that influence
5 marketability just besides price, and that's the
6 pipeline capacity, whether you have to be
7 restrained by a processing plant, if you have
8 down time on the wells. There's a lot of things
9 to do with marketability besides just price.

10 Q. Will the lower allowables allow Chevron
11 to maintain a competitive advantage in the
12 reservoir because of its structural position,
13 that you wouldn't enjoy if the allowables were
14 higher?

15 A. No.

16 MR. KELLAHIN: No further questions.

17 CHAIRMAN LEMAY: Thank you, Mr.
18 Kellahin. Additional questions of the witness?

19 MR. STOVALL: I just have a couple.

20 CHAIRMAN LEMAY: Mr. Stovall.

21 MR. STOVALL: The first one is just in
22 case I get the opportunity to meet Mr. Kellahin
23 in district court in Carlsbad at some time.

24 EXAMINATION

25 BY MR. STOVALL:

1 Q. I want to make sure that we understand
2 that--you've referred to the 173,000 acreage
3 factor for monthly, and I think your testimony
4 was that you understood that we had to make an
5 adjustment based upon correction of production
6 data--

7 A. Yes.

8 Q. --and we're now using 178,000. And
9 where you've referred to 173, can I substitute
10 178 in there throughout your testimony?

11 A. Yes, you can. Most of it was
12 attributed to marginal production, so the
13 adjustment, basically, was just marginal wells.

14 Q. Okay. The second question is a more
15 fundamental question. Am I correct in the
16 understanding that you are objecting to setting
17 allowables based upon the highest capacity well,
18 because that, then, gives those wells the
19 potential to drain offsetting proration units and
20 produce more than their fair share? Is that the
21 fundamental underline, why you want to set it at
22 the average level that you're talking about?

23 A. We basically think the reservoir is
24 better managed. If you look at the acreage, we
25 think the wells that are marginal effectively

1 drain their acreage. If they weren't, you would
2 be seeing a lot of infill drilling. Is there any
3 infill drilling going on? We've already seen
4 this at some of the other Northwest pools that
5 incorporate infill drilling, if they're not being
6 drained, but I haven't heard of any wells that
7 have been drilled on 320s, of recent.

8 Q. And by implication, the really high
9 capacity wells are capable of draining more than
10 their acreage, is that correct?

11 A. Yes.

12 MR. STOVALL: That's all I have.

13 CHAIRMAN LEMAY: Additional questions?
14 Commissioner Carlson?

15 COMMISSIONER CARLSON: No.

16 CHAIRMAN LEMAY: Commissioner Weiss?

17 COMMISSIONER WEISS: Yes, I have a
18 couple.

19 EXAMINATION

20 BY COMMISSIONER WEISS:

21 Q. When you speak of workovers, what type
22 are they? What do they do?

23 A. In the Helbing (phonetic) Federal well,
24 we just changed out the tubing. Basically it had
25 2-3/8-inch tubing and we changed it out to

1 2-7/8. We're actually decreasing the friction
2 loss. Bigger size pipe allows for more
3 production. It had a small stimulation, but no
4 additional perfs were needed. We felt like the
5 wellbore was open in all the zones.

6 The other well, we went to a 3-1/2-inch
7 tubing string on it. We did open some additional
8 pay on this well, a small acid job. That's the
9 type of work there. They're running about
10 150,000 apiece.

11 Q. There's general agreement that all the
12 wells are hydraulically connected in this pool?

13 A. Generally, yes.

14 Q. Has there been any attempt to unitize
15 it?

16 A. Yes. This unitization effort was not
17 successful because, in a gas reservoir, you're
18 required to get 100-percent participation and
19 Marathon's attempt failed because of operators
20 that didn't want to participate.

21 Q. And, on the drainage issue, is there a
22 pressure history to support your observations?

23 A. We have some pressure data, but it's
24 not as good as we would like to make a good
25 conclusion. We do have shut-in calculated

1 deliverabilities. We do, for the State every
2 year, our annual shut-in test, but the historical
3 data is kind of hard to come by on pressure.

4 COMMISSIONER WEISS: No other
5 questions. Thank you.

6 CHAIRMAN LEMAY: Maybe I just need to
7 get your clarification on a point.

8 EXAMINATION

9 BY CHAIRMAN LEMAY:

10 Q. You alluded to marginal wells. A
11 marginal well in this field would be like a
12 pretty good well in most fields since we have an
13 allowable of five million plus a day?

14 A. About 4,000 a day.

15 Q. So a marginal well isn't the normal
16 concept of marginal wells?

17 A. No.

18 Q. But you say the allowable is strong
19 enough that these are good, economic wells that
20 can drain their proration unit, but as you
21 increase the differential between the allowables
22 we give and what these wells are capable of
23 producing, you increase the chance for violation
24 of correlative rights, is that what you're
25 saying, because the superstars can drain the

1 marginal wells easier?

2 A. If you base the allowables on the best
3 wells of the field, you're looking at four or
4 five wells out of 33 wells, we do feel like there
5 is some drainage situation problem there as far
6 as correlative rights, yes.

7 Q. That's what I'm trying to get at is
8 your testimony that as you increase the
9 allowable, the chance of--maybe not "chance," but
10 the ability of the marginal wells to protect
11 their acreage decreases?

12 A. Yes.

13 Q. Okay. I thought I understood. I just
14 wanted to--

15 A. Unless we're talking about a
16 homogeneous reservoir where everything's equal,
17 and we're not.

18 CHAIRMAN LEMAY: Okay. I have no
19 further questions. Additional questions? You
20 may be excused.

21 MR. KELLAHIN: To expedite matters, Mr.
22 Chairman, Mr. Folse and Mr. Gilbert have
23 previously been sworn and would be continuing
24 under that oath, as you have qualified each
25 gentleman as expert in his respective field.

1 CHAIRMAN LEMAY: They've been both so
2 qualified, so you may continue, Mr. Kellahin.

3 RONALD J. FOLSE

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

6 EXAMINATION

7 BY MR. KELLAHIN:

8 Q. Mr. Folse, let me direct you, sir, to
9 what has been marked as Marathon Exhibit No. 1.
10 Would you identify that for me?

11 A. Exhibit No. 1 is a map of the Indian
12 Basin field, and it indicates the--it's an
13 operator map indicating the operators for various
14 sections in the field. The spacing for the field
15 is on 640-acre spacing.

16 It shows the current eight operators in
17 the field in the productive area with the
18 productive acreage right now.

19 Q. What's identified by the green dots on
20 the display?

21 A. The green dots represent the
22 nonmarginal wells as Marathon believes they are
23 in the current proceedings with the acreage
24 factor of 5.49.

25 Q. You have not yet verified with Mr. Van

1 Ryan that the wells he has utilized to get that
2 acreage factor are the same ones that you show on
3 this display?

4 A. That's correct.

5 Q. Let's talk about the reservoir in
6 general. Have you participated and been involved
7 in reservoir engineering analysis of the Indian
8 Basin Pool?

9 A. Yes, I have.

10 Q. And you've previously testified before
11 the Division concerning unorthodox well locations
12 in this reservoir? Were you not involved in
13 doing some of the calculations with regards to
14 that work?

15 A. Yes, I have been.

16 Q. So, in addition to studying
17 prorationing, you have looked at the reservoir
18 itself?

19 A. Yes, I have.

20 Q. Characterize for me, if you will, in a
21 general way, the relative positioning of the
22 wells among the operators in terms of their
23 structural position.

24 A. In terms of the structural position,
25 the reservoir, the shallowest part of the

1 structure is on the western flank of the field.
2 As you go forward to the east, or toward the
3 right on the exhibit, you're moving down
4 structure. And, in general, the majority of the
5 acreage--several of the acreage locations
6 indicated in yellow, which is Marathon-operated,
7 are along the eastern edge, which is close to
8 water encroachment.

9 On the other hand, the acreage operated
10 by Chevron, in particular indicated in red, the
11 Mobil Flats unit in particular, several sections
12 that are further up structure.

13 Q. Is it a fair characterization that as
14 the water migrates through the reservoir that the
15 Chevron gas wells will be the last wells
16 producing in the Indian Basin-Upper Penn Pool?

17 A. That is correct, yes.

18 Q. Describe for me what is your
19 recommendation for an allowable for the next
20 proration period for this reservoir. What level
21 of allowable are you seeking?

22 A. We're seeking a level of allowable to
23 allow for the wells that Marathon has currently
24 worked on in the past year and a half, to be able
25 to produce at sufficient rates to not become

1 overly produced during any producing period.

2 Q. Do you see any opportunity to impair
3 correlative rights or cause drainage among wells
4 if the allowables are assigned as you propose to
5 have them assigned?

6 A. I do not.

7 Q. Turn now to Exhibit No. 2. Would you
8 identify and describe that display for us?

9 A. Exhibit No. 2 is the same aerial format
10 with the operators indicated. The green squares
11 indicate what Marathon believes to be the wells
12 that well work has been performed during the
13 period 1991-1992 to the current time, by the
14 operator.

15 Q. Generally describe what has been the
16 level of activity by the other operators in the
17 pool in the recent past.

18 A. As can be seen in the acreage colored
19 yellow, operated by Marathon, Marathon has
20 performed work on seven wells during that period
21 of time, Oryx has performed well work on five
22 wells, and Chevron has performed work on two
23 wells in the field.

24 Q. Turn now to Exhibit No. 3. Would you
25 identify and describe that for us?

1 A. Exhibit No. 3 is a letter from Marathon
2 to all the operators in the field that was faxed
3 to them on August 24, 1992, advising them of our
4 intention to request an adjustment to the
5 allowables from what was proposed by the
6 preliminary schedule to a value of 197,600 Mcf
7 per month.

8 Q. All right, sir. Let's turn now to
9 Exhibits 4, 5, and 6. Before we go back and
10 identify these displays and talk about the
11 information and conclusions, tell us what we're
12 looking at.

13 A. We're looking at an exhibit, Exhibit 4,
14 which is a tabulation of gross production from
15 the wells from the period October 1990 through
16 March 1992 for all the wells in the Indian Basin
17 field in the Upper Penn reservoir.

18 Q. As we move from Exhibit 4 to 5 to 6,
19 what is the difference?

20 A. As we move from Exhibit 4 to 5 to 6,
21 the difference is, first, Exhibit 4 is based on
22 the acreage factor of 5.49. Exhibit 5 is based
23 on changing the acreage factor to 4.92, and
24 Exhibit 6 is based on revising the acreage factor
25 downward to 3.92.

1 Q. All right. Let's talk about the
2 acreage factor adjustments. What has caused you
3 to do three different spreadsheets doing three
4 different acreage factor adjustments?

5 A. The reason for doing this evaluation,
6 as we currently see it, there are six wells that
7 are involved and the acreage factor is 5.49.

8 Q. You believe those wells to be the ones
9 identified on Exhibit No. 1?

10 A. That's correct.

11 Q. Okay.

12 A. In reviewing the data, in particular
13 there's a well that's currently, from production
14 information, is not capable of producing its
15 allowable at the current time.

16 Q. Which well is that?

17 A. It is the well in Section 1 to the
18 south. It's the Musselman-Owen & King well.
19 It's on the exhibit. It is the one to the far
20 east side.

21 Q. It's identified in the purple, and in
22 the caption says "MOK"?

23 A. MOK, that's correct.

24 Q. All right, sir. Any other wells that
25 might affect how you factor the acreage

1 calculation in this spreadsheet?

2 A. Yes. In addition there is a well
3 currently operated by Chevron that appears to be
4 producing under its allowable, substantially, and
5 we feel that based on its current production
6 status that it should, in fact, be reclassified
7 to marginal unless performance would result in
8 its coming back up to nonmarginal well status.

9 Q. Subject to the Division making a
10 determination of the proper number of nonmarginal
11 acreage factors to use, lead us through how to
12 use the display, Exhibit No. 4, and tell us what
13 conclusions you reach as you go through the
14 calculations.

15 A. In looking at Exhibit 4, on the bottom
16 part of the page there's a summation of total
17 production for all the wells during each month.
18 In particular, below that there's a section that
19 we're looking at, for example, the average pool
20 production during the period being October 1991
21 through March 1992. And that's directly under
22 that column heading of October 1991, which can be
23 shown as 3,148,726, and then going on the
24 additional months through March 1992.

25 With that first line, average pool

1 production during the period, and taking an
2 average for the six months, you can see to the
3 far right the average is 3,133,473. Okay. At
4 that point in time, as mentioned in previous
5 testimony and also during the earlier hearing
6 this year, you can tell that in December 1991 and
7 in January 1992, there was some plant down time
8 as a result of problems in the plant, which
9 actually was a fire, which resulted in six days
10 down time.

11 Q. Let me stop you at that point. The
12 Commission, in the last proration hearing, made
13 an adjustment in the schedule to take into
14 consideration the first plant fire that affected
15 the actual production during that prior period
16 that it was using to forecast allowables?

17 A. That's correct.

18 Q. What do you recommend the Commission do
19 concerning the plant down time with regards to
20 forecasting the allowables for this next period?

21 A. I am recommending at this time that as
22 opposed to a six-month average, basing the pool
23 sales on a six-month average, to go to an average
24 for a four-month period, excluding December and
25 January's numbers.

1 Q. If we do that, we're averaging what
2 months in the calculation?

3 A. If we do that, we're averaging October
4 and November 1991, and February and March 1992.

5 Q. And if that is done, then that is
6 consistent with the past action of the Commission
7 in setting the current allowable schedule that
8 we're now in?

9 A. That's correct, yes.

10 Q. When you compare the tabulation of
11 information the Division has provided, have you
12 been able to verify and agree with those numbers?

13 A. I have been able to come close to those
14 numbers, yes.

15 Q. Describe for us any differences that
16 you find.

17 A. In terms of the average six-month
18 period?

19 Q. It's easier to go down the spreadsheet,
20 using the Division's exhibit, and have you show
21 us where you have a different number.

22 A. Okay. Based on the acreage factor as
23 indicated, 5.49?

24 Q. Let's keep it simple. Let's use the
25 5.49.

1 A. Okay. What Marathon is proposing is an
2 adjustment on Line 3.

3 Q. What would that adjustment be?

4 A. Of 105,559.

5 Q. Do it one more time.

6 A. 105,559.

7 Q. Okay. Where else do we make an
8 adjustment?

9 A. Based on that adjustment in Line 3, the
10 revised Line 4 would be 3,605,030. This is based
11 on our final recommendation for a revised F1
12 factor.

13 Q. Yes, sir.

14 A. That's correct. Then, as a result of
15 the Exhibit 4, looking at the average four-month
16 period for marginal well production from the
17 pool, that number would be 2,520,206. Line 6
18 would then be revised to 1,084,824. Using the
19 acreage factor on Line 7 of 5.49 results in a
20 monthly acreage allocation factor on Line 8 of
21 197,600.

22 Q. How does the actual production from
23 last winter compare to the pool allowables?

24 A. Looking at the average pool sales?

25 Q. Yes.

1 A. During the last winter period?

2 Q. Yes.

3 A. The average was 3,605,030.

4 Q. When you look at the individual months,
5 where does the month of March compare to the
6 allowables?

7 A. Could you repeat the question?

8 Q. When I look at the schedule, it appears
9 that March's actual production is higher than the
10 actual allowables assigned for that month?

11 A. That's correct, yes.

12 Q. What do you forecast to be the need for
13 gas production out of the pool, in terms of an
14 allowable level? You've concluded it's 197,600.
15 What's the basis for using that number? I've
16 confused you?

17 A. Slightly.

18 Q. Your recommendation is 6.5 million a
19 day?

20 A. That's correct.

21 Q. You backed in to the 197,600?

22 A. That's right.

23 Q. Give me some sense of your argument to
24 tell the Commission why you believe that
25 adjustment is reasonable. What do you base it

1 on?

2 A. One of the things it's based on, which
3 is not indicated here on Exhibit 4, is the
4 average four months--the most recent average of
5 four months, April through July, total pool sales
6 that have been 3,698,422 Mcf. Based on that
7 number and with the marginal pool production
8 we've seen during the period and the acreage
9 factor of 5.49, we feel that 197,600, or 6.5
10 million a day, would be in line with the pool
11 sales.

12 Q. When you take the 3,698,000 number, and
13 if you used that number and ran it through the
14 calculation to forecast the F1 factor for this
15 winter period, approximately what would that be?

16 A. If I use the average, the most recent
17 four-month period?

18 Q. Yes. Actual production from April to
19 July.

20 A. Which would be the nonmarginal well
21 production?

22 Q. Yes.

23 A. Based on 5.49, it would be
24 approximately 1,084,824 Mcf.

25 Q. Can you conclude from that comparison

1 that in order to maintain the level of production
2 that you're currently permitted to have, you need
3 to keep allowables set with an adjustment factor
4 that gives you 197,600?

5 A. That's correct, yes.

6 Q. That change is not materially different
7 than what is currently being allowed to be
8 produced in the pool?

9 A. That is correct.

10 Q. Let's go now to Exhibit 7 and I'll have
11 you identify and describe that for me.

12 A. Exhibit 7 is a graph of production from
13 Marathon-operated well Indian Basin D 1 for the
14 period January 1990 through June of 1992. This
15 particular well was on marginal well status
16 through September 1991. In October 1991 it was
17 reclassified to nonmarginal well status.

18 Q. What's the point?

19 A. As can be shown here, during the period
20 April 1991, as a result of well work performed by
21 Marathon earlier in the year and beyond that, we
22 have been producing over the allowable. And,
23 more recently, through June 1992, we are still
24 exceeding the allowables.

25 Q. Identify and describe Exhibit 8.

1 A. Exhibit 8 is a similar graph of
2 production and the allowables for the North
3 Indian Basin Unit 8, and it shows the well
4 production during the period--let's see, even
5 more recently during 1991 to the current time.
6 The majority of the period, then, well production
7 was in excess of allowables.

8 Q. Exhibit No. 9?

9 A. Exhibit No. 9 is a similar graph for
10 Indian Basin E-1. This is the third nonmarginal
11 well, as we currently believe exists. It was a
12 marginal well through the period September 1991,
13 when it was reclassified in October to
14 nonmarginal well status.

15 Once again, Marathon had performed work
16 in early 1991 to try to enhance production, and
17 it can be seen that well production has exceeded
18 the allowables through 1991. More recently,
19 during the winter period, it is not actually
20 exceeding the allowable, but as a result of field
21 operations we had to actually change our
22 operation during the winter to prevent any
23 hydrate-forming problems which would have
24 resulted in additional restrictions on the well,
25 which would not allow it to produce at the

1 allowable rate.

2 In April of this year, Marathon has
3 changed out the surface facilities, and we do not
4 foresee the same problem this winter.

5 Q. Identify and describe for us Exhibit
6 10.

7 A. Exhibit 10 is a tabulation of gas
8 volumes from the Well Indian Basin D 1, the first
9 well I discussed. It has the production volumes
10 for the period January through June 1992, it has
11 the sales volumes, and it has the lease use
12 volumes.

13 The purpose of this exhibit, as we are
14 aware, the NMOCD uses production from the wells
15 with lease use taken out, which is, in effect, a
16 sales volume from the wells. The data I had
17 presented earlier was C-115 information, but it
18 was production information.

19 As can be seen here, the percentage of
20 lease use to production is less than half a
21 percent, so the numbers are not precise or
22 comparable to the NMOCD schedule, but they are
23 very close.

24 Q. Are they sufficiently accurate upon
25 which, then, to base adjustments and forecasted

1 allowables for the winter period?

2 A. I believe they are.

3 Q. Summarize for us your company's
4 position with regards to this allowable, the 6.
5 million a day, and contrast that, if you will, to
6 Chevron's proposal at 5.77 million a day.

7 A. I guess what I would say is Chevron
8 wants an allowable which will be capacity
9 allowable for their nonmarginal wells, and it
10 proposes our request because of our wells having
11 more capacity than theirs, and since they cannot
12 take advantage of the higher allowables we are
13 requesting.

14 The bottom line is that Marathon is
15 requesting an allowable which would support the
16 work that we have done recently, in the last two
17 years. We're planning on additional work in the
18 next year to enhance production from other
19 wells.

20 To the opposite effect, I feel that the
21 allowable request we are making will not impair
22 Chevron's ability to market its share of the
23 gas. I believe those are the differences there.

24 Q. When you look at 6. million a day, will
25 there be wells in the pool that are constrained

1 to less than their full capacity to produce?

2 A. Yes, there will be.

3 Q. The level you have proposed for the
4 allowables, summarize for us again how that
5 compares to past allowables assigned for the pool
6 and why in your conclusion it's a fair and
7 reasonable allowable to set.

8 A. The allowable, I believe, set for last
9 winter period, was 184,875. We feel that a six
10 percent increase to 197,600 Mcf per day is
11 justified based on the well rates we can see from
12 our wells.

13 Q. Does that provide a continuing
14 incentive for your company to additionally add
15 capacity and deliverability to the wells and your
16 spacing units in the pool?

17 A. Yes, it does.

18 MR. KELLAHIN: That concludes my
19 examination of Mr. Folse. We move the
20 introduction of his Exhibits 1 through 11--did we
21 get that far? I guess 1 through 10, Mr.
22 Chairman.

23 CHAIRMAN LEMAY: Exhibits 1 through 10
24 will be admitted, without objection.

25 Your witness, Mr. Carr.

1 MR. CARR: Thank you, sir.

2 EXAMINATION

3 BY MR. CARR:

4 Q. How many nonmarginal wells does
5 Marathon operate in the pool at this time?

6 A. Marathon operates what we believe to be
7 three nonmarginal wells.

8 Q. Those are the three wells you had
9 production graphs on, your Exhibits 7, 8 and 9?

10 A. Yes, sir.

11 Q. Are you seeing kind of a decline in the
12 production rates you're able to achieve with your
13 workover program?

14 A. Based on the production we've seen, we
15 have not seen a decline in the production. The
16 wells are producing. We performed work on them
17 during 1991.

18 More recently, we did, early this year,
19 change out the stack pack production units on the
20 lease to enable production through the winter
21 period to go on at minimum restrictions compared
22 to the facilities that were available for the
23 previous 27 years of production life. We believe
24 that as the reservoir pressure will decline, if
25 you don't make any changes to the well producing

1 system, you will see some decline.

2 Q. Is it just too early to see a decline
3 developing in any of these wells you worked over
4 in 1991?

5 A. Yes, it is.

6 Q. You indicated that one of these wells
7 was producing less than the allowable because of
8 operational considerations? Is that what you
9 said? I believe it was the 2 E well?

10 A. Yes, sir.

11 Q. Other than that, are either of the
12 other two nonmarginal wells being restricted in
13 their ability to produce, or being curtailed?

14 A. No, they're not.

15 Q. Are any of these wells six times
16 overproduced?

17 A. No, they're not.

18 Q. If your allowable rate is set, can you
19 identify for me any well that you would
20 anticipate would be shut in as a result of
21 prorating during the next period?

22 A. Toward the end of the next period, the
23 first well we mentioned, the Indian Basin D 1,
24 would be as a result of overproduction coming
25 into this period, would have to be curtailed.

1 Q. That is if it continues to produce at
2 current rates?

3 A. That's correct.

4 Q. Any other well you're aware of would be
5 subject to shut-in, if your recommendation is, in
6 fact, adopted?

7 A. No other ones.

8 Q. Aren't you really asking for an
9 abolishment of prorationing in this field by
10 setting the allowable rate so high?

11 A. I guess I don't have any comment on
12 that.

13 Q. Would it be appropriate just to set
14 rates high enough so that only the best well in
15 the pool would be ever overproduced to the point
16 it would have to be shut in? Would that be, in
17 your opinion, effective prorationing?

18 A. I guess my understanding of
19 prorationing, if you end up with an acreage
20 factor of one, then you're simply setting the
21 limits based on the top producing well in this
22 particular field.

23 Q. During the current prorationing period,
24 are you aware of what has happened to the pool
25 status? Is it more or less underproduced than it

1 was going in?

2 A. During the current prorationing period?

3 Q. Yes.

4 A. I guess I don't recall what the numbers
5 should be.

6 Q. Is the pool underproduced now?

7 A. The total pool?

8 Q. Yes.

9 A. I guess we have not tracked or looked
10 at those numbers from a total pool basis.

11 Q. If we look at just your Marathon wells,
12 you have wells that produce very well and you
13 also have some wells that don't produce that
14 well, isn't that fair to say?

15 A. That's correct.

16 Q. Have you looked at all Marathon wells
17 to determine whether or not they are collectively
18 in an overproduced or underproduced status?

19 A. At the current point in time, the wells
20 that are under the current prorationing period,
21 prior to the adjustment downward to 5.49, those
22 wells were in an overproduced state.

23 Q. All of your wells?

24 A. All of those wells.

25 Q. When you say "all of those wells," you

1 mean all Marathon-operated wells in the pool?

2 A. All of the Marathon-operated wells that
3 are nonmarginal wells?

4 Q. I'm talking about all of your wells
5 now.

6 MR. KELLAHIN: Object to the question.
7 It's confusing. If it's a marginal well, it
8 can't be overproduced.

9 Q. All right. Do you have any information
10 on the status of this pool as to where it stands
11 today? Is it overproduced or underproduced, do
12 you know?

13 A. I don't know.

14 Q. And yet you are requesting a six
15 percent increase in allowable for the next
16 period?

17 A. Yes, I am.

18 Q. You don't know what impact that would
19 have, then, I guess it's fair to assume, on the
20 over or underproduced status of the pool as a
21 whole?

22 A. That's right.

23 Q. If we look at your Exhibit, either one,
24 I guess, 1 or 2, the plat of the field, I believe
25 you testified that structurally the Chevron wells

1 were located higher structurally and therefore
2 were not going to water out at least as soon as
3 the other wells in the pool, is that correct?

4 A. That's correct. That's in general.

5 Q. And isn't it because you see a water
6 drive coming in from the east and the northeast?

7 A. That's correct.

8 Q. Hasn't BTA just drilled a well in
9 Section 20, south and west of the Chevron acreage
10 that has experienced a high degree of water
11 production?

12 A. That's correct, yes.

13 Q. Isn't it possible there might be
14 problems with water development from the south
15 and from the west?

16 A. Yes, that is true.

17 Q. I think you've recommended that in
18 setting the allowable, that certain months during
19 the last period be excluded from the base
20 calculation because there were unique physical
21 problems at that time?

22 A. That's correct.

23 Q. Haven't you scheduled some plant work
24 in March of 1993, during the next period?

25 A. For the current proration period which

1 goes through March of 1993, we have not looked at
2 the possibility of any plant down time. The
3 current forecast of the plant shut-in, for maybe
4 a six-day period, is in conjunction with pipeline
5 restrictions during that period. We're currently
6 working on the schedule. It may or may not occur
7 in March of next year.

8 Q. If it should occur, would it then be
9 appropriate to assume, in setting--the next time
10 you look at allowables, to throw out these months
11 when there's down time due to plant or pipeline
12 restrictions?

13 A. In looking at average pool sales over
14 any particular period in time, if the plant
15 shut-in did occur in calculating the numbers in
16 the future, I would propose to exclude that
17 month.

18 Q. Doesn't that actually result in
19 consistently a little more allowable being
20 assigned every time than actually can be used?

21 A. It results in the fact that if you
22 don't have any abnormal shut-ins for a major
23 facility, which is a plant in this field, you
24 would be able to produce at that higher
25 allowable.

1 MR. CARR: I think that's all I have.
2 Thank you, Mr. LeMay.

3 CHAIRMAN LEMAY: Additional questions
4 of the witness?

5 MR. STOVALL: I do have a couple.

6 EXAMINATION

7 BY MR. STOVALL:

8 Q. Let's stay on the subject of plant
9 shut-in. Would you have any, rather than simply
10 eliminating certain months from the production,
11 would you have a problem, particularly with the
12 abnormal things, upsets, fires, et cetera, just
13 making an adjustment on Line 3 rather than
14 tinkering with the number of months? Would that
15 accomplish the same result and maintain the
16 integrity of the method of calculation?

17 A. Yes, it could.

18 Q. Now, I need to go back over, because I
19 don't think Mr. Van Ryan or myself followed how
20 you ended up with some numbers that you ended up
21 with. If you would turn to our Exhibit No. 1,
22 and whatever exhibit you have used to come up
23 with the numbers you filled in these lines with,
24 and lead me through this again, because I think
25 you were using your Exhibit No. 4, if I

1 understood?

2 A. That's correct, yes.

3 Q. And the bulk of that spreadsheet, that
4 table up at the top, is the monthly production
5 for each of those wells for each of the months
6 based upon C-115s, is that correct?

7 A. That's correct, yes.

8 Q. Okay. Let me ask you to go through the
9 Indian Basin-Upper Penn, our Exhibit No. 1, and
10 help me fill in some numbers here. First off,
11 and I realize your calculations were made when
12 the number showing up was 2,768,000 and we have
13 since adjusted that to 3,027,000 Mcf?

14 A. That's correct.

15 Q. You're okay there. Do you think a
16 different number should be on Line 1?

17 A. If, in fact, you stay with the
18 six-month average for October 91 through March
19 92, I guess I would propose a different number
20 than yours. Was it 3,027,791?

21 Q. Yeah, I've got 3,027,791. That's what
22 the Division records reflect as being the average
23 monthly production for the pool. What number do
24 you have?

25 A. I have, based on a six-month average,

1 that would be 3,133,473.

2 Q. Okay. Let me go back and see if I'm
3 with you on that. And that's off the bottom
4 right-hand area of your six-month production
5 average off of your Exhibit 4?

6 A. That's correct.

7 Q. Do you have any idea what the
8 discrepancy is between that number and the
9 Commission's number? Where did you get that
10 information?

11 A. This information is based on the form
12 C-115 but it is production numbers and not sales
13 values.

14 Q. So you're saying the difference is
15 accounted for because we use sales values?

16 A. Correct.

17 Q. Which takes out shrink, plant use, et
18 cetera?

19 A. Well, it takes out lease use.

20 Q. That's what I meant. I'm sorry. Now,
21 to arrive at the 3,133,000, you used the
22 production column on the C-115, is that correct?

23 A. That's correct.

24 Q. Or did you go to the sales column and
25 apply a mathematical formula to go back to the

1 production column?

2 A. I used the production column. The
3 information that I used here is due to the fact
4 that we don't get easily obtained all the
5 C-115s. This is the data from the PI Database
6 Retrieval System, and it is production from the
7 C-115s.

8 Q. Okay. At least I know now how you got
9 the number. It does not appear to be a
10 significant discrepancy in there.

11 A. No.

12 Q. Now, nominations, we're not considering
13 anything as nominations from this pool, but you
14 are proposing an adjustment, is that correct?

15 A. That's correct.

16 Q. And what adjustment are you proposing,
17 based upon the six months and given the
18 Commission's methodology I think it's virtually
19 impossible for us to try and guess plant outages
20 and adjust the number of months, and I think we
21 have to use this line to make corrections. Do
22 you have a number? Are you having to come back
23 from your four-month and do a mathematical to get
24 back to it?

25 A. I believe I'm having to come back to my

1 four months.

2 Q. If I figured that right, you would
3 multiply your four month times one and a half?
4 Would that get you your six month? or do you
5 divide it by two-thirds?

6 Take a moment and give me a number to
7 plug in there, because we can't do this without
8 your--do you have a calculator?

9 Q. The numbers you gave before when you
10 were talking to Mr. Kellahin were off your
11 four-month column, is that correct?

12 A. That's correct, yes.

13 Q. Okay. These number of times on your
14 six-month column, are they the ones you want to
15 use? Do we need to do calculations or are they
16 right there?

17 A. They're actually right there. The
18 first number is 3,133,473, the second number is
19 what I believe to be based on 5.49 acreage
20 factor, the nonmarginal well production average
21 for six months, which is 808,028.

22 Q. Now, that would be the equivalent of
23 Line 6, is that correct, on your report?

24 A. That is correct.

25 Q. Well, let's go to the marginal, because

1 the way we get to it is we subtract the marginal.
2 Your marginal production you show is 2,325,445?

3 A. That's correct.

4 Q. Now that's--let me look at my
5 adjustment table here--that's about, what,
6 270,000 above what the Division shows, if you
7 look at Exhibit 3 of the Division? That was our
8 adjustment table here.

9 A. That's correct, yes.

10 Q. Now, do you account for that difference
11 being the same manner that you're using
12 production, rather than sales, as the number?

13 A. That's right.

14 Q. So, then, if you subtract the 2.3 from
15 the 3.1, that's where you come up with your
16 808,000?

17 A. That's correct, yes.

18 Q. Which leads to an average nonmarginal
19 well production of 147,000 for each well?

20 A. That's correct, yes.

21 Q. You don't have your adjustments on this
22 line, so we do have to go back and--

23 A. --make the adjustment--

24 Q. --and figure out what line to put in on
25 the table that the Division proposes to use.

1 A. What I've done here, if we assume 5.49
2 as still the acreage factor, which we are now--

3 CHAIRMAN LEMAY: Is there some way you
4 could all get together on the mathematics later?

5 MR. STOVALL: I would be happy for him
6 to submit the numbers later.

7 CHAIRMAN LEMAY: Let's do it that way.
8 We're taking a lot of time going over someone's
9 numbers with a calculator, and I think there's a
10 better way to spend our time.

11 MR. STOVALL: I don't mind doing that.

12 Q. Okay. Given the fact that the
13 difference is based upon production versus sales,
14 so long as the allowable is set using the same
15 number, in other words, if the allowable is based
16 upon sales and the measurement against allowable
17 is based upon sales, is there any problem with
18 using the Division's sales numbers rather than
19 your production numbers to get to the same point?

20 A. No problem.

21 Q. Do you have a problem with the numbers
22 the Division has used, as far as their accuracy?
23 I'm not talking about whether you want an
24 adjustment or not. Or have you verified them?
25 Are you in a position to verify those, 3,027,000?

1 A. They appear to be within reason of the
2 numbers we calculated.

3 Q. So you will provide for the Commission
4 a number to go on Line 3 to get to the allowable
5 you see there?

6 A. That is correct.

7 Q. Just one quick question on your field
8 use. I think you gave an example for one well,
9 is that correct?

10 A. That's correct.

11 Q. Do you have any opinion or knowledge as
12 to whether that is a good example to use
13 throughout the field for all operators?

14 A. This is a particular well that is on
15 wellhead compression. As we can see here in
16 Exhibit 10, it has an average lease use per month
17 of 373 Mcf. Other wells typically that are not
18 on wellhead compression could be as low as 100
19 Mcf per month. This is probably a high-side
20 number. It could be less.

21 Q. You think that's higher field use than
22 there may really be?

23 A. For any one well, yes.

24 Q. If we use sales all the way across the
25 board, it eliminates the concern about whether an

1 operator has got a different field use number,
2 would you agree?

3 A. That's correct, yes.

4 Q. Finally, am I understanding correctly
5 that Marathon's philosophy, that you are setting
6 forth, is to base the allowable upon the high
7 capacity wells rather than upon some average of
8 nonmarginal wells? You want to let wells produce
9 to capacity?

10 A. We would like to see them produce close
11 to, if not at capacity, yes.

12 CHAIRMAN LEMAY: Are there additional
13 questions of the witness? I'm sorry, are you
14 through, Mr. Stovall? I thought you said that
15 was your concluding question.

16 MR. KELLAHIN: Mr. Chairman, I
17 appreciate the fact you treat your counsel as we
18 are treated.

19 CHAIRMAN LEMAY: I'm just taking him at
20 his word. He said that was the final question
21 and I was assuming that was.

22 MR. STOVALL: I do have to have one
23 more because the matter is not in the exhibit. I
24 apologize.

25 Q. (BY MR. STOVALL) Again, looking at the

1 table that was circulated, is it not true that
2 the pool has been underproduced for the past
3 three similar periods, assuming those figures to
4 be accurate?

5 A. That is correct.

6 MR. STOVALL: Okay. That's my last
7 question.

8 CHAIRMAN LEMAY: Are there additional
9 questions of the witness? Commissioner Carlson?

10 COMMISSIONER CARLSON: I hate to ask
11 this, Bob, what did you just give him?

12 MR. STOVALL: The last question?

13 COMMISSIONER CARLSON: Yes.

14 MR. STOVALL: It was the table that has
15 been referred to several times, and it just shows
16 that the pool is underproduced for each period.
17 The actual production and sales for each of the
18 last similar periods, the October through March
19 period for the last three years. And his answer
20 was yes, they have been underproduced for each of
21 those proration periods.

22 EXAMINATION

23 BY COMMISSIONER CARLSON:

24 Q. I think I understand what Marathon
25 wants as far as number adjustments. I don't want

1 to get into math. I still don't understand why
2 you ran, I guess your Exhibits 4, 5 and 6, why
3 you used the number of acreage factors different
4 in each one, and what you are proposing out of
5 that. Would you please explain that?

6 A. The Exhibits 4, 5 and 6 are simply to
7 demonstrate the effect of the averaging for the
8 acreage factor as it affects the average rates
9 for nonmarginal wells; to show the effects, for
10 example, of a well that, as a result of reservoir
11 performance or mechanical problems, is not
12 capable of producing its nonmarginal or its
13 allocated share or its allowable; and the effects
14 of lowering the average for nonmarginal wells in
15 the pool.

16 The other example showed the fact that
17 if an operator so chooses not to perform any well
18 work on a well and the rates are much lower than
19 the allowable, it has a lowering effect on the
20 average for those nonmarginal wells.

21 Q. But you aren't proposing that a
22 different number of acreage factors be used?
23 You're satisfied with the 5.49, is that correct?

24 A. I guess I am suggesting that we could,
25 in fact, adjust or change the acreage factors,

1 even though I am not aware of exactly which wells
2 are in the current, proposed acreage factor of
3 5.49 from the Commission.

4 Q. But you don't have a recommendation, or
5 do you have a recommendation for the Commission
6 to follow for determining acreage factors?

7 A. I believe there is sufficient
8 regulations and all that are available right now
9 for making those changes or adjustments.

10 MR. STOVALL: Commissioner Carlson, can
11 I ask a question to follow-up on what he raised?

12 CHAIRMAN LEMAY: Let's have--it's
13 Commissioner Carlson's turn. You're interrupting
14 him.

15 Q. You're not making a specific
16 recommendation, are you? And if you are, what is
17 that recommendation?

18 A. I guess one of my recommendations would
19 be that the fact that there is a well not capable
20 of producing at the current time, in particular
21 the MOK well, and that if that is the case for a
22 prolonged long period of time, several months as
23 indicated here in Exhibit 4, that the well be
24 reclassified.

25 COMMISSIONER CARLSON: I have no more

1 questions.

2 CHAIRMAN LEMAY: Commissioner Weiss?

3 EXAMINATION

4 BY COMMISSIONER WEISS:

5 Q. Do your workover procedures vary
6 materially from Chevron's?

7 A. The workovers Marathon performed during
8 1991 and early this year were similar procedures,
9 where we were replacing tubing, adding
10 perforations, and in many cases we had to
11 actually add perforations. The method they use,
12 I believe, is not substantially different from
13 the way we do it.

14 Q. And you mentioned that you saw no
15 problem with the protection of correlative rights
16 if we provide for these higher allowables, but
17 you didn't say why. Could you tell me why?

18 A. Several areas within the field are
19 currently--there's water encroachment in several
20 of those leases. If we are adversely held down
21 below its deliverability, the water encroachment
22 will continue based on total withdrawal from the
23 reservoir. If we are, in fact, restricted when
24 the well does water out, remaining gas under that
25 lease will not be recovered by that well, and it

1 will be, therefore, recovered by other wells in
2 the field.

3 COMMISSIONER WEISS: No other
4 questions. Thank you.

5 CHAIRMAN LEMAY: I've just got a
6 couple.

7 EXAMINATION

8 BY CHAIRMAN LEMAY:

9 Q. This is a family feud, I understand.
10 You can't get together on unitization, is that
11 right?

12 A. That's right.

13 Q. And is it fair to say that Marathon's
14 got the rock and Chevron's got the structure?

15 A. Correct. Yes, sir.

16 Q. So, is it fair to say that you may be
17 using our allowable process here to maximize your
18 advantage in the reservoir?

19 A. Could you define "maximize"?

20 Q. Yeah. If you've got the rock you can
21 pull it as hard as you can and get more gas.
22 Whose gas, you don't know. You're sitting on top
23 of the structure with poor rock, you're producing
24 at capacity, you can't produce more to suck up
25 the water because you've got some limestone in

1 there, not good dolomite, so you're stuck.

2 If you can't get together on
3 unitization, you're here arguing allowables
4 before us to maximize your position in the
5 reservoir, as far as I can see. Why can't you
6 unitize?

7 A. The area we see, in terms of the Vogel
8 Flats area, has the same potential capacity as
9 the areas we're performing work on.

10 Q. Why can't you unitize? You've been
11 working on it. You've reached an impasse, right?

12 A. Yes, sir, we have.

13 Q. You must have a different view on who
14 is going to get the most if you don't or if you
15 do, or under what parameters?

16 A. That's correct.

17 CHAIRMAN LEMAY: I have no further
18 questions. Anyone else have other questions?

19 MR. STOVALL: I have one administrative
20 question I would like to ask.

21 EXAMINATION

22 BY MR. STOVALL:

23 Q. You've identified--apparently you've
24 disagreed with the 5.49. You think there are
25 some nonmarginal units that haven't been

1 identified or reclassified yet, is that correct?

2 A. That's correct.

3 Q. Would you please, with the Commission's
4 position, identify those to the Division so if
5 there are errors in it--because it is a
6 regulatory function and not an opinion and input
7 recommendation function--if you would help us to
8 identify those, then we can make the appropriate
9 reclassifications if that is appropriate under
10 the rules?

11 I don't mean here. You can do it after
12 the hearing, just for our purpose.

13 A. Okay.

14 CHAIRMAN LEMAY: Get together and have
15 your numbers checked. That can be done.

16 MR. STOVALL: That's all I'm asking.

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

19 MR. KELLAHIN: To expedite the process,
20 Mr. Chairman, I don't believe that there's any
21 dispute among the operators that whatever gas is
22 authorized to be produced can be produced. Mr.
23 Gilbert is here as a gas marketer, but that would
24 be his testimony and I don't think that's of
25 concern today.

1 CHAIRMAN LEMAY: I don't see any. Does
2 any commissioner have a problem with that?

3 MR. STOVALL: The Division doesn't have
4 a problem with that.

5 CHAIRMAN LEMAY: We don't have a
6 problem with that, do we?

7 MR. KELLAHIN: Then let me move on to
8 the Oryx presentation.

9 UNIDENTIFIED SPEAKER: Could we have a
10 10-minute recess?

11 MR. KELLAHIN: Do you want to take a
12 break?

13 CHAIRMAN LEMAY: Let's take a
14 five-minute recess. We want to speed this thing
15 along and get it done. Can you do it in five
16 minutes?

17 [A recess was taken.]

18 MR. KELLAHIN: Thank you, Mr.
19 Chairman.

20 CHAIRMAN LEMAY: Thank you, Mr.
21 Kellahin.

22 **TOM ADAMS**

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

25 EXAMINATION

1 BY MR. KELLAHIN:

2 Q. Mr. Adams, would you please state your
3 name and occupation.

4 A. Yes. Tom Adams, and I'm a petroleum
5 engineer with Oryx Energy Company. I graduated
6 from the University of Texaco in 1983 with a
7 bachelor of science in petroleum engineering.

8 I have been working with them for
9 coming up on 10 years. I've worked in this
10 particular area for approximately nine months.

11 Q. Are you a reservoir engineer?

12 A. Yes. I have been in reservoir
13 engineering since graduation.

14 Q. Do you participate on behalf of your
15 company with analyzing the Indian Basin-Upper
16 Penn Reservoir?

17 A. Yes, that falls under my area of
18 responsibility.

19 MR. KELLAHIN: We tender Mr. Adams as
20 an expert petroleum engineer.

21 CHAIRMAN LEMAY: Mr. Adams is so
22 qualified.

23 Q. Briefly, Mr. Adams, I would like for
24 you to give us a general reservoir description of
25 the mechanics and operation of the reservoir,

1 specifically as it relates to the Chairman's last
2 questions with regards to whether or not those
3 operators that are less structurally favored to
4 Chevron are going to have reservoir capacity, if
5 you will, that they will achieve an advantage by
6 an adjustment in the regulatory system that sets
7 producing allowables for those wells.

8 A. Okay. I have been involved in the
9 reservoir engineering work as far as the
10 unitization. You asked a question about the
11 unitization, as far as why it was stalled. That
12 was basically killed by a very small interest
13 owner, Texaco, who did not want to participate,
14 maybe for reasons that they had a small interest,
15 weren't interested, et cetera. It was not killed
16 by Oryx, Marathon, Chevron, et cetera.

17 It was stalled at that point. It was
18 not stalled because there was a real interest in
19 equity, as far as someone being able to produce
20 more of the gas than any other party.

21 Oryx has completed a simulation study.
22 I don't want to get into that. It's completely
23 separate from Marathon's. Came up with results
24 that were very similar. And, from what we see of
25 this reservoir and the water encroachment, and

1 unsteady straight water encroachment, the
2 structural position is advantageous.

3 Looking at the rock properties of the
4 rock, we see no indication of Chevron having poor
5 rock. They've done two workovers. I believe
6 between Marathon and Oryx, we've done 15. They
7 have still a lot of acreage to do workovers on.

8 There is an instance where we have one
9 well, Chevron operates 94 percent, I believe, and
10 87 percent of the other well. We've yet to see
11 workovers done on those wells. We feel like
12 there's additional potential out there on the top
13 of the structure that hasn't been realized. We
14 see no difference necessarily in the rock
15 properties coming off the top of the structure
16 down into, say, our wells or Marathon's wells.

17 The water encroachment is coming based
18 on our simulation study. What we see is that you
19 can produce at a rate in this field and the water
20 encroachment is going to continue to come. If
21 you produce at a higher rate, the water
22 encroachment is continuing to come at the same
23 rate. Therefore, Mark did mention that you had
24 some heterogeneities. That is true. But, in the
25 overall generality, the water is coming at a set

1 pace.

2 You can pull this reservoir at 10
3 million a day or you can pull it at six million a
4 day. If you don't produce your gas before that
5 water hits you, if you're in a structurally lower
6 position, you will not recover those reserves.
7 Chevron sits with the majority of their acreage
8 at the top of their structure and they have the
9 benefit of that. They do have, from what we see,
10 the same benefit in rock quality to do the work.
11 There may be a lot of difference in the workover
12 procedures and there may be a difference in the
13 tubulars, the production facilities, restrictions
14 of that type. We don't necessarily have data on
15 their wells to quantify that. All we know is
16 there's a lot of potential, and we have the
17 majority interest in some of that and we've yet
18 to see that work being done.

19 We just wanted to quantify what we were
20 hearing, and your impression was that us and
21 Marathon were sitting in the structurally low
22 position and wanted to increase the rates and
23 take advantage of our position, but we do not see
24 it that way. We see it that we're trying to
25 increase the rates. We've spent, and Rick will

1 get into substantial evidence on how we've
2 increased the rates. We've spent substantial
3 dollars, and we feel we need a rate of return on
4 that to justify the work we've done, and we feel
5 like there's additional potential out there that
6 has not been realized. That's very brief.

7 MR. KELLAHIN: That concludes my
8 presentation of Mr. Adams.

9 CHAIRMAN LEMAY: Thank you. Fine.
10 Questions of the witness?

11 MR. CARR: I have no questions.

12 CHAIRMAN LEMAY: Commissioner Carlson?

13 EXAMINATION

14 BY COMMISSIONER CARLSON:

15 Q. Does Oryx have any nonmarginal wells?

16 A. Not currently at this time.

17 Q. You anticipate having one?

18 A. Yes. Rick will be getting into the
19 discussion of the well work we've done, and we
20 anticipate having two to three possible
21 nonmarginal wells at the current rates that we
22 have.

23 And he'll get into the discussion of
24 how we came up with 6.5 million a day and why we
25 feel that's equitable and why we feel like we're

1 compromising to come down to that point. We will
2 be cutting back some wells if we do not want to
3 go into an overage position. And that's how we
4 came up with our number.

5 COMMISSIONER CARLSON: Thank you.

6 CHAIRMAN LEMAY: Commissioner Weiss?

7 EXAMINATION

8 BY COMMISSIONER WEISS:

9 Q. I'm concerned about correlative
10 rights. Would this field be unitized if it
11 weren't for Texaco? Is that what you said?

12 A. I'm not going to say that. They were
13 the initial block in our last meeting. There are
14 a lot of obstacles, and as Mark has elaborated,
15 too, it's not a simple, homogeneous reservoir.

16 Protection of equity would be your
17 hardest point in trying to unitize the reservoir
18 because you've got people at the bottom of the
19 structure who are not going to want to give up
20 their current rate because they realize the water
21 is coming and they want to keep that rate, but
22 the people at the top of the structure are not
23 going to necessarily want to give those people at
24 the bottom any equity. Because we know from our
25 work in simulation that their equity is

1 short-term.

2 So, you've got a real difficult
3 situation in trying to get an equity parameter to
4 unitize on. That's going to be the bottom line
5 or hardest point. The people at bottom are not
6 going to want to give up their current cash flow.

7 Q. Maybe the allowables are too high.

8 A. Why would you say that?

9 Q. Sometimes unitization takes place when
10 they go down.

11 A. Well, one thing you would do if you
12 reduced allowables substantially more, you would
13 shut down all additional work out there. There
14 wouldn't be any incentive for us or Marathon or
15 even Chevron to continue their program. You're
16 going to be costing the state money because
17 you're going to shut down our production and it's
18 going to lower that, and still I don't think that
19 would increase your incentive to unitize.

20 COMMISSIONER WEISS: Thank you.

21 A. My personal opinion.

22 COMMISSIONER WEISS: No other
23 questions.

24 EXAMINATION

25 BY CHAIRMAN LEMAY:

1 Q. Mr. Adams, these wells are great. It's
2 hard to imagine that you need additional
3 incentive beyond four and a half million a day or
4 whatever you want to talk about in terms of our
5 historical allowables to do workovers. Are you
6 making a case that you need higher allowables to
7 do workovers in here?

8 A. Additional work? In the climate that
9 we're in of short capital, when you go to a
10 manager and say, "I'm going to do this well work
11 and I'm going to have to end up shutting the well
12 in," they'll say, "Why do it?"

13 Q. Your credibility is getting strained.
14 At four and a half million a day, I think anyone
15 would love to do a workover. I mean, we're
16 talking about a great field with great allowables
17 now, and you want them higher, and you're talking
18 about needing even more for economic
19 justification?

20 A. To do additional work to support that.

21 Q. I know. I'm talking about that.

22 A. You could continue to produce this
23 field at four and a half--

24 Q. Okay, you've got great prospects if
25 you've got stuff competing with this.

1 A. We did the workovers.

2 CHAIRMAN LEMAY: That's all the
3 questions I have.

4 MR. KELLAHIN: I would like to call Mr.
5 Rick Hall, if there's no more questions of Mr.
6 Adams.

7 CHAIRMAN LEMAY: Thank you.

8 RICK HALL

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

11 EXAMINATION

12 BY MR. KELLAHIN:

13 Q. Mr. Hall, for the record, would you
14 please state your name and occupation?

15 A. Sure. My name is Rick Hall, and I'm
16 the operations engineer for Oryx Energy Company
17 out of Dallas.

18 Q. When and where did you obtain your
19 degree?

20 A. I obtained my degree in 1981 from the
21 University of Oklahoma.

22 Q. Summarize your employment for us.

23 A. I began work shortly after graduation
24 with Sun Exploration Production Company, who
25 later became Oryx, and I've worked with them

1 since, for about 11 years.

2 Q. Have you performed operational
3 engineering functions for your company with
4 regards to its properties and operations in the
5 Indian Basin-Upper Penn Pool?

6 A. Yes, sir, I've had the Indian Basin
7 area for about 10 months now.

8 MR. KELLAHIN: We tender Mr. Hall as an
9 expert operations engineer.

10 CHAIRMAN LEMAY: His qualifications are
11 acceptable.

12 Q. Let me direct your attention to Exhibit
13 No. 1. Would you identify and describe it for
14 us?

15 A. Exhibit No. 1 is a letter from Oryx to
16 the Commission asking for the allocation factor,
17 the F1 factor, to be raised to 197,600 Mcf per
18 month in the Indian Basin-Upper Penn Pool,
19 covering the period of October 92 to March of 93.

20 Q. What is your recommended level of
21 allowable for that pool for this next period?

22 A. That equates to about a six and a half
23 million a day.

24 Q. You're in agreement with Marathon on
25 the allowable request level that's ultimately

1 calculated into the schedule?

2 A. Yes, sir, we are, and that reflects
3 about a 6.9 percent increase over the same period
4 of last year. And I might add that the year
5 prior to that, a 6.7 percent increase was granted
6 and two years prior to that a 30 percent increase
7 in the allowable was granted, and I believe that
8 this is a reasonable increase and falls in line
9 with previous increases that have been granted by
10 the Commission in the past.

11 Q. At the last allowable hearing in
12 February of this year, when Marathon requested a
13 higher rate than Chevron, you were opposed to the
14 Marathon rate?

15 A. Yes, we were.

16 Q. What changed your mind?

17 A. We reviewed the Marathon work and saw
18 their success and immediately began studying our
19 wells and mimicked that success; saw the
20 opportunities downhole, mostly.

21 Then we produced to our management with
22 AFEs to basically copy that work, and we wrote up
23 five AFEs and were successful on all five.

24 Q. Marathon's success, then, in improving
25 the deliverability of its wells, is not unique to

1 Marathon and its position in the reservoir?

2 A. No, sir, it's not. And I believe it's
3 a factor of how you've got your plumbing done
4 down hole, if I may use that term.

5 Q. Is that an opportunity for additional
6 capacity that could be realized by the wells
7 operated by Chevron?

8 A. Well, not looking at their downhole
9 conditions, I don't know, but I would assume it
10 would be, yes, sir.

11 Q. Do you have interest with Marathon in
12 wells operated by Chevron for which you have
13 sought to have this additional work done?

14 A. Yes, we have.

15 Q. Describe for us in a general term,
16 before we get to the details, the kinds of work
17 that you have done to increase the
18 deliverabilities of your wells.

19 A. Okay. First of all we ran what's
20 called a NODAL analysis on each well.

21 Q. Spell that.

22 A. N-O-D-A-L. What that is, it checks
23 your efficiency from the sand face or, in this
24 case, the limestone or dolomite face, up through
25 your production unit. From that we modeled our

1 current conditions and then the program shows us
2 that we can enhance those efficiencies by making
3 changes down hole.

4 And in this case these included adding
5 perforation density to some of the wells, just a
6 matter of adding, going to four shots per foot
7 versus one shot per foot. In some of the wells
8 we actually added feet of pay. In all of the
9 wells we stimulated, pretty large stimulation.
10 I've heard people referring to small, we did one
11 rather large. It would also entail changing out
12 tubing and increasing the size of that.

13 That's the down hole. Then you get to
14 the surface and you can take out chokes and
15 upgrade up-size flow lines, compression.

16 Q. You haven't even gotten to compression
17 in some of your activities?

18 A. No. We've only got one well on
19 compression out of the five, and we can make
20 these allowables that we're proposing on two of
21 the five wells without any compression at all.
22 We can make more on all five wells, or on the
23 remaining four, if we were to put them on
24 compression.

25 Q. Can you give us an example of a well

1 and what rate it was producing at before you did
2 a workover on it?

3 A. Yes, sir. Some of our wells were
4 making about four million a day, and we went to
5 management and got them up to 6.9 million a day.

6 Q. You must have scared management to
7 death when you asked them to kill a 4 million a
8 day well?

9 A. That was exactly right. Which maybe
10 some of the other operators' problems is going to
11 their managers and saying, "Look, I want to work
12 on a four-million-a-day well. But, if I can get
13 you 6.9 million a day, will you work on that
14 well?"

15 Originally they said, "No." Later they
16 came back and we said, well, Marathon is doing it
17 and it's something that needs to be done, it's
18 something that can be done economically, and we
19 should do it.

20 Q. Let's turn now to Exhibit 2. Identify
21 and describe that for us.

22 A. Exhibit 2, I wouldn't say detailed, but
23 a summary of capital outlays and expenditures
24 that Oryx Energy has spent in 1992. This program
25 began in the beginning of April, and I might

1 mention that we did this program in April not to
2 take advantage of winter gas prices but to
3 actually get the gas on this summer. It turns
4 out that the prices have went up this summer.
5 Normally they go down, but we were still able to
6 do the work.

7 Q. Is your marketing strategy like
8 Marathon's and Chevron's, that you'll produce
9 without regarding to seasonal adjustments?

10 A. We're without regard to any seasonal
11 adjustments or price. We're wide open. And
12 obviously in this case prorated to whatever that
13 rate may be.

14 The well work cost, as the sheet says,
15 \$284,000. One compressor, the installation cost
16 was \$8,000, and we're currently rebuilding
17 production units at \$30,000. We've spent a total
18 of \$422,000.

19 Q. Okay. Let's turn to Exhibit 3.
20 Identify and describe that display.

21 A. Exhibit 3 is a list of our wells on the
22 first column, by name. The second column is the
23 gas proration schedule given to us by the
24 Commission, April 92 through September 92. I
25 will mention that these were all classified as

1 marginal wells.

2 The total rate is 451,000 Mcf per
3 month. Our production estimate through
4 September, after these workovers, will be 737,000
5 Mcf.

6 The third column is a production
7 estimate based upon all the wells being on a full
8 six-month period of time, and also limiting two
9 wells, the Conoco State No. 1 and the West Indian
10 Basin No. 1, to the 197,600 Mcf that we propose
11 today. Giving us a total of 851,000, is what
12 we're projecting for the winter period.

13 Q. If this level of allowable adjustment
14 is approved by the Commission, you anticipate
15 that you'll still have two nonmarginal wells that
16 will be capacity restricted?

17 A. Yes, sir. And we feel like we could
18 get the other ones to a nonmarginal status by
19 adding compression, if we're given the
20 opportunity to raise the allowable.

21 Q. If we use the preliminary schedule, the
22 5.77 million a day, isn't that enough incentive
23 to justify the workovers? Do you need the
24 additional incremental difference when you get to
25 the 6.5?

1 A. I need the 6.5 to do any additional
2 work.

3 Q. Why? I don't understand.

4 A. Because if I'm at 5.9 now, what good
5 would it be for me to do any work if I can only
6 produce 5.7?

7 Q. When we go to Exhibit 4, what do you
8 have displayed here?

9 A. Exhibit 4 is a production of Oryx's
10 producing wells or operated wells in the Indian
11 Basin. This is a gross production curve, gas
12 production on the left by month. These are daily
13 volumes.

14 As you can see, early in 1992 we were
15 producing around 17 to 18 million a day. We're
16 currently at 27 million a day through the summer
17 months.

18 Q. Okay. Exhibit 5?

19 A. Exhibit 5 and following, the next five
20 exhibits, are the plots of the individual wells
21 and the results of those workovers. First of all
22 the Bright Federal, I went from four million a
23 day to a little over five million a day.

24 Q. Exhibit 6?

25 A. Exhibit 6 is the Bunnel Federal No. 2.

1 This well basically stayed flat; perhaps a 500
2 Mcf a day gain. This is the well we've put
3 additional compression on, and the projection at
4 this time is that it will make four million a
5 day. It's currently making two million a day.

6 Q. All right. Let's go on to Exhibit 7.

7 A. Exhibit 7 is another workover, the
8 Conoco State No. 1. We went from four million a
9 day up to 6.9 million a day.

10 Q. This is one of the wells that would be
11 restricted even at your allowable request?

12 A. Even at our allowable request, and
13 obviously at the Commission's proposed allowable.

14 Q. Exhibit 8.

15 A. Exhibit 8, production went from four
16 million a day to six million a day on this well,
17 also, the Federal 28.

18 Q. All right. Exhibit 9.

19 A. Exhibit 9, the production on this well,
20 about four million a day to 6.9 million, also one
21 that would require curtailing at our proposed
22 allowable.

23 Q. And finally, Exhibit 10?

24 A. Exhibit 10 is a TA'd well that we
25 currently have in the field.

1 Q. Do you have additional plans for
2 additional workovers or other activity on any of
3 your wells?

4 A. Yes, sir, we do. We obviously could
5 put the wells on compression that are not at the
6 allowable rate if the allowable rate exceeds an
7 economical margin between what we're producing
8 and what that rate is.

9 Also, the TA'd well we showed you
10 there, we're planning about a \$150,000 workover
11 on that well.

12 Q. Have you contacted your gas marketing
13 people within your company to determine whether
14 or not they can market and sell this additional
15 volume of gas that is eligible for production if
16 your allowable level is approved?

17 A. Yes, we have, and that's Exhibit 11.
18 It's a letter from one of our marketing reps
19 stating that there is not a problem with
20 marketing the gas, and there are plenty of
21 markets out there. They're urging us to take
22 advantage of this window of opportunity that the
23 prices have been up, and they expect the prices
24 to continue to be up.

25 Q. Are you aware of any limitations in

1 terms of gathering, transportation of the gas
2 through the plant in order to accommodate
3 production at these levels you're requesting?

4 A. No, sir.

5 MR. KELLAHIN: That concludes my
6 examination of Mr. Hall. I move the introduction
7 of Oryx Exhibits 1 through 11.

8 CHAIRMAN LEMAY: Exhibits 1 through 11
9 will be entered into the record without
10 objection.

11 Mr. Carr?

12 MR. CARR: I have no questions.

13 CHAIRMAN LEMAY: Additional questions
14 of the witness? Commissioner Carlson?

15 EXAMINATION

16 BY COMMISSIONER CARLSON:

17 Q. What's the deliverability on those two
18 wells that you say would be curtailed?

19 A. Okay. The Conoco State No. 1 is around
20 6.8.

21 Q. That translates monthly to-- How much
22 above the proposed allowable is that?

23 A. Your proposed allowable or mine?

24 Q. Yours. We don't have one?

25 A. That calculates to 206,000 versus the

1 197,600. I might add, that's without
2 compression. That's in its natural state. With
3 a compressor on it, the well could make eight
4 million a day.

5 Q. At 206,000, that's five percent, maybe,
6 over your suggested allowable, give or take?

7 A. Whatever. Yeah. Nine.

8 Q. So you would have to produce many
9 months to reach the maximum of six times
10 overproduced?

11 A. That may be correct.

12 COMMISSIONER CARLSON: That's all I
13 have.

14 CHAIRMAN LEMAY: Commissioner Weiss.

15 COMMISSIONER WEISS: I have just a
16 simple question.

17 EXAMINATION

18 BY COMMISSIONER WEISS:

19 Q. Do you know how much TA'd wells there
20 are in the field?

21 A. No, I don't. We have two.

22 COMMISSIONER WEISS: No other
23 questions.

24 CHAIRMAN LEMAY: I have no further
25 questions.

1 MR. KELLAHIN: That concludes our
2 presentation, Mr. Chairman.

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

5 Additional presentations or statements
6 in the Indian Basin Field?

7 MR. CARR: No, sir.

8 MR. KELLAHIN: No, sir.

9 CHAIRMAN LEMAY: We'll take that one
10 under advisement. Are there any other fields you
11 would like to give any kind of statements on or
12 presentations?

13 If not, thank you very much, gentlemen.
14 We'll take the allowable hearing under
15 advisement.

16 (And the proceedings concluded.)

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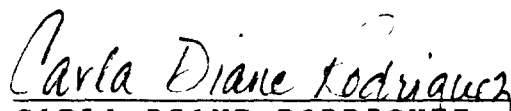
1 CERTIFICATE OF REPORTER

2
3 STATE OF NEW MEXICO)
4 COUNTY OF SANTA FE) ss.
5

6 I, Carla Diane Rodriguez, Certified
7 Shorthand Reporter and Notary Public, HEREBY
8 CERTIFY that the foregoing transcript of
9 proceedings before the Oil Conservation
10 Commission was reported by me; that I caused my
11 notes to be transcribed under my personal
12 supervision; and that the foregoing is a true and
13 accurate record of the proceedings.

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

19 WITNESS MY HAND AND SEAL September 11,
20 1992.
21

22
23 
24 CARLA DIANE RODRIGUEZ, RPR
25 CSR No. 4