

NEW MEXICO OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO

CASE NO. 10672

IN THE MATTER OF:

The Oil Conservation Division Calling
a Hearing on its Own Motion to Accept
Nominations and Other Evidence and
Information to Assist in Determining
April 1993 through September 1993 Gas
Allowables for the Prorated Gas Pools
in New Mexico.

BEFORE:

CHAIRMAN WILLIAM LEMAY

COMMISSIONER BILL WEISS

COMMISSIONER GARY CARLSON

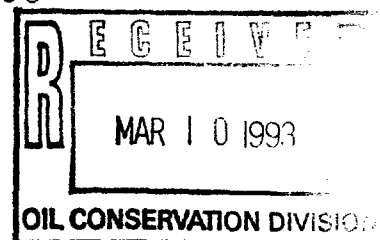
FLORENE DAVIDSON, Staff Specialist

Mabry Hall

February 25, 1993

REPORTED BY:

CARLA DIANE RODRIGUEZ
Certified Court 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
Post Office Box 2088
State Land Office Building
Santa Fe, New Mexico 87504-2088

FOR THE STATE OF NEW MEXICO OFFICE OF INTERSTATE
GAS MARKETS:

RAND L. CARROLL, ESQ.

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

FOR AMOCO PRODUCTION COMPANY; and CHEVRON,
U.S.A., INC.:

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

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

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

FOR EXXON CORPORATION:

HINKLE, COX, EATON, COFFIELD & HENSLEY

Post Office Box 2068
Santa Fe, New Mexico 87504-2068

BY: **JAMES BRUCE, ESQ.**

FOR MERIDIAN OIL, INC.; PHILLIPS PETROLEUM
COMPANY; MARATHON OIL COMPANY; and ORYN ENERGY:

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

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

-and-

THOMAS C. LOWRY, ESQ.

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1 CHAIRMAN LEMAY: I shall now call Case
2 No. 10672, which is the application of the Oil
3 Conservation Division to consider nominations and
4 other evidence to determine gas allowables for
5 the period of April 1993 through September 1993.

6 I'll now call for appearances in Case
7 No. 10672.

8 MR. STOVALL: Robert G. Stovall of
9 Santa Fe, representing the Division in this
10 case. I have one witness.

11 MR. CARROLL: Rand Carroll for the
12 State of New Mexico Office of Interstate Natural
13 Gas Markets.

14 MR. KELLAHIN: Mr. Chairman. I'm Tom
15 Kellahin of the Santa Fe law firm Kellahin and
16 Kellahin. For the allowable hearing, I'm
17 representing four different companies.

18 In the Northwest prorated pools, I'm
19 appearing on behalf of Meridian Oil, Inc., with
20 one witness; on behalf of Phillips Petroleum
21 Company with one witness.

22 In Southeastern New Mexico, in
23 association with Thomas C. Lowry, a Texas
24 attorney, we represent Marathon Oil Company in
25 the Indian Basin and the Blinbry pools, and I

1 represent Oryx Energy Company in the Indian Basin
2 pool. That's the Indian Basin-Upper Penn, in
3 both those cases.

4 CHAIRMAN LEMAY: Thank you, Mr.
5 Kellahin. Mr. Carr.

6 MR. CARR: May it please the
7 Commission, my name is William F. Carr with the
8 Santa Fe law firm Campbell, Carr, Berge &
9 Sheridan. I represent Amoco Production Company,
10 and we'll call one witness to testify as to
11 allowables in the San Juan Basin.

12 I also represent Chevron U.S.A., Inc.,
13 and I'll call two witnesses to testify about
14 allowables for the Indian Basin-Upper Penn pool.

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

17 MR. BRUCE: Mr. Chairman, Jim Bruce
18 from the Hinkle law firm in Santa Fe,
19 representing Exxon Corporation. I have one
20 witness with respect to the Tubb oil and gas
21 pool.

22 CHAIRMAN LEMAY: Additional
23 appearances?

24 We'll certainly take statements at the
25 end, so those of you that would like to make a

1 statement in terms of allowables, certainly there
2 will be time for that.

3 I think we shall start, I think, with
4 Mr. Carroll. Is that correct--

5 MR. STOVALL: Correct. Mr. Carroll
6 will go first.

7 CHAIRMAN LEMAY: --if we have that part
8 first?

9 MR. STOVALL: I would suggest we swear
10 the witnesses at this time.

11 CHAIRMAN LEMAY: Let's do that. Those
12 that will be giving testimony, please stand and
13 raise your right hand.

14 [All witnesses were sworn.]

15 MR. CARROLL: Thank you, Mr. Chairman.
16 The State of New Mexico, Office of Interstate
17 Natural Gas Markets calls Mr. Ron Merrett to the
18 stand.

19 Mr. Chairman, would it be all right if
20 Mr. Merrett sat up here? He has some charts to
21 show.

22 CHAIRMAN LEMAY: I think that's the way
23 we'll do it, with the screen here, so that we can
24 see it.

25 MR. CARROLL: Okay.

RONALD H. MERRETT

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

EXAMINATION

BY MR. CARROLL:

Q. Mr. Merrett, would you please state your full name, your position and the responsibilities of your position, for the record, please?

A. Mr. Chairman, my name is Ronald H. Merrett. I'm the director of the Office of Interstate Natural Gas Markets in the Energy, Minerals, and Natural Resources Department.

My office is intended to further the cause of the natural gas industry in New Mexico.

Q. Mr. Merrett, have you previously testified before this Commission?

A. Yes, I have.

Q. Mr. Merrett, would you please describe the purpose of your testimony today.

A. The purpose of my testimony is to give an overview of the natural gas market in the United States and Canada as it affects New Mexico. I plan to use a series of slides for this presentation, with the Chairman's

1 permission.

2 Q. Mr. Merrett, were these slides prepared
3 by you or under your direction?

4 A. Yes, they were.

5 Q. Mr. Merrett, if you would, please,
6 explain these charts after you have projected
7 them onto the screen.

8 A. Okay.

9 MR. CARROLL: Mr. Chairman, I made
10 available copies of these charts and they're
11 right next to the docket sheets.

12 CHAIRMAN LEMAY: Okay. Thank you.

13 A. These charts are intended--and there
14 are seven of them--to show the natural gas market
15 supply and demand in New Mexico, as it affects
16 New Mexico, I should say.

17 The first chart shows New Mexico
18 natural gas production history from 1935 through
19 1992. These charts are numbered 1 through 7.
20 This is Chart No. 1.

21 As you can see, it was in 1935 when
22 natural gas first was produced in sufficient
23 quantities to get on this chart, on this scale,
24 and reached a peak in 1976, I believe that is,
25 and then declined rather dramatically through

1 1986, when the trend was reversed. And
2 production has increased, until increasing at
3 such a rapid rate that this chart almost becomes
4 meaningless. We're going to have to change the
5 scale.

6 In 1992, production from our
7 preliminary estimates will exceed or nearly
8 equal--we're not quite sure which--the peak
9 production of 1976. So the state is back in
10 terms of volume produced to peak levels again.

11 Chart No. 2 shows the production, by
12 month, for the last three years. Again, 1992 is
13 an estimate because we do not yet have final
14 numbers in for December. However, in the past,
15 our estimates have been fairly accurate, if a
16 little low. It will either be the number that's
17 shown there or a little more.

18 The purpose of this chart is
19 principally to show seasonal variations. As you
20 see, the peaks in demand are in December and
21 January, and the period from February through
22 September is inclined to be a lower demand than
23 the winter demand.

24 There had, traditionally, in the years
25 before those shown on this chart, been a spike

1 shown in the middle of the year in July or August
2 related to the summer cooling season, in most of
3 the United States. However, in the years you see
4 here, starting in 1990, which is the blue line at
5 the bottom, you barely see a spike in August.
6 And then in 1991, in green, there is in fact a
7 dip in July, which was related to pricing, while
8 the demand did climb in August but went on up
9 after that.

10 In 1992, which is the red line at the
11 top, there is a dip in February which is related
12 to price--and I can talk more about that, if
13 necessary--but that is almost certainly related
14 to price. And then there is a slight dip in
15 June, but I don't think that's related to
16 demand. I think that's related to price, if I
17 may say it that way. It's not related to a
18 particularly hot June, I don't think, or a
19 particularly cool June, it's just related to
20 price. And then the production continues to rise
21 through the end of the year. In other words,
22 seasonal variations have become less pronounced
23 in this state.

24 The next chart shows the monthly
25 production, from January 1990 through the end of

1 1992, by month, and the different colors
2 represent on the blue line is coal seam gas
3 production, which you see has a fairly pronounced
4 trend upwards.

5 The green line is San Juan Basin
6 conventional gas production, and that shows a
7 slight increase, flat to an increase I would
8 say. We have another slide later which shows the
9 trend a little better. The Permian Basin
10 conventional is essentially flat. There may be a
11 slight increase, but it's essentially flat,
12 related to oil production.

13 Chart No. 4 shows the number of coal
14 seam gas wells which are producing, according to
15 our records. It's my understanding that in
16 addition to the slightly over 1,500 wells which
17 are shown producing in December of 1992, that
18 there are approximately another 320 wells which
19 are completed and are waiting to be connected to
20 gathering systems, so that they can produce.

21 Chart No. 5 is the first chart in which
22 we show an estimate of what may happen in 1993
23 and in this proration period under review. As
24 you've seen already, the actual production shows
25 a fairly steep increase as the year is continued,

1 and we have done some estimates--made some
2 estimates of what could happen in 1993, in the
3 proration period.

4 Of course, no one has any idea what the
5 impact will be of any federal taxes which might
6 be applied during this period, which have been
7 proposed by the administration, nor do we have
8 any idea of what may happen as a result of any
9 legislation now pending in the New Mexico
10 legislature.

11 So, with those caveats, I will say that
12 those are our estimates for the period under
13 review. As you'll see, apart from a spike down
14 in February, which is based almost entirely on
15 the past two or three years when there has been a
16 price reduction in February, and that has
17 affected demand, apart from that you see a steady
18 increase in production with a fairly steep
19 production towards the end of the year, steep
20 increase, as the winter season arrives.

21 The next chart attempts to show part of
22 the way in which this estimate was calculated.
23 What we basically did was--and this chart, by the
24 way, shows the period from January through
25 December of 1993, and is an estimate of

1 production by category, by month.

2 The red line with the diamonds at the
3 bottom being San Juan casinghead gas, which is
4 essentially flat, based on the assumption of
5 basically flat oil production. The next line
6 above it is the brown line which is Permian
7 casinghead, which is, again, essentially flat,
8 based on an assumption of flat oil production in
9 1993.

10 The orange line, Permian conventional,
11 shows a slight increase towards the end. I
12 believe that Permian conventional is more
13 responsive to price and, therefore, we show a dip
14 in February and an increase in the winter,
15 reflecting the way prices have gone.

16 These curves are used, by the way, when
17 running a model, in conjunction with Future's
18 prices from the New York Mercantile Exchange, so
19 that is how we derive our forecasts for 1993.
20 But these are the production estimates to which
21 are applied pricing forecasts.

22 San Juan conventional is the green
23 line. As I said, that shows a dip in February
24 and an increase at the end of the year. The top
25 line is San Juan coal seam gas. That is a

1 straight line and is something of a guess,
2 because we have no idea whether any of these
3 wells will yet decline. I have no doubt the
4 industry will provide testimony in that area, but
5 we have no information as to the behavior of
6 these coal seam gas wells.

7 The final chart, Chart 7, simply shows
8 the attempts to verify the validity of our
9 estimates by showing--the estimate is the green
10 column, and the actual is the blue column. These
11 are in New Mexico fiscal years, which run from
12 July 1 to June 30, so the numbers don't exactly
13 correlate with what you've seen, but you can
14 figure it out.

15 90-92 is 1.237, which is actually the
16 calendar year, as I can see. We have been fairly
17 accurate. Those green bars are usually put
18 together in February for the February gas
19 proration hearing.

20 The February, for example, in FY79, the
21 forecast for calendar 91 was 1.001. The actual
22 was 1.019. It's fairly close.

23 In fiscal 1990, that is in February of
24 1992, we forecast, for the calendar year 92,
25 1.083, and the actual is 1.237. That's actually

1 an estimate but, we believe it's fairly close.

2 For the next year we're showing 1.403
3 as the estimate. Excuse me. That shows an
4 actual. I don't quite understand that. Excuse
5 me a moment.

6 I guess that 90-93 must be an estimate,
7 too. And this is a projection, the 1.474, just
8 to show you how we think the production will go
9 as the years go along. I guess the green is the
10 fiscal and the blue is the calendar. That's
11 probably the way it goes.

12 That's all I have in the way of charts,
13 Mr. Chairman, and I'll be ready for questions.

14 MR. CARROLL: Mr. Chairman, I move that
15 these charts, numbered 1 through 7, be entered
16 into evidence as the State of New Mexico Office
17 of Interstate Gas Markets' Exhibits No. 1 through
18 No. 7.

19 CHAIRMAN LEMAY: Without objection,
20 Exhibits 1 through 7 will be admitted into the
21 record.

22 Are there any questions of the
23 witness?

24 MR. STOVALL: I have just one, Mr.
25 Chairman.

EXAMINATION

BY MR. STOVALL:

Q. Mr. Merrett--and I think you've answered this in past hearings with similar information, are you able to make any predictions or provide any historical data with respect to any of the prorated gas pools, based upon the information your office has accumulated?

A. Mr. Chairman, it's not possible to do that. I guess one could historically track the production from a pool and project that forward, but gas demand in New Mexico reflects gas demand in the North American continent, to a large extent, because there are not any significant pipeline restrictions to get the gas away from the state, and therefore we respond to market forces and individual pools don't really come into play there, perhaps with the exception of pools related to coal seam gas, where there is a price effect, and the price effect is more significant than the location of the pool.

Q. And I guess the intent of my question was, you haven't done a study of individual pools, so this is a statewide trend that you're talking about?

1 A. That's correct.

2 MR. STOVALL: Okay. Thank you.

3 CHAIRMAN LEMAY: Thank you, Mr.

4 Stovall. Mr. Kellahin?

5 MR. KELLAHIN: Thank you, Mr.

6 Chairman.

7 EXAMINATION

8 BY MR. KELLAHIN:

9 Q. I want to explore with you, Mr.
10 Merrett, some of the trends that you see in the
11 gas marketing for New Mexico gas. Although in
12 response to Mr. Stovall's question that you don't
13 individually forecast market demand for any of
14 the individual pools, your forecast of market
15 demand for New Mexico gas inherently includes all
16 pools, those prorated and nonprorated, right?

17 A. That's correct.

18 Q. Have you seen any indication that there
19 are any owners of natural gas in any of the pools
20 that are denied access to the market?

21 Let me state that the other way
22 around. Do you see sufficient market demand for
23 all New Mexico gas production that would afford
24 an opportunity to any owner of gas to obtain a
25 place in the market?

1 A. Yes. To the extent that demand is also
2 a function of price, then it becomes a matter of
3 choice for the producer as to whether or not to
4 produce the gas.

5 Q. I want to go back to one of your
6 earlier charts. I think that's a nice way to
7 illustrate the difference between what is being
8 produced in New Mexico, a price decision by the
9 owner of the gas or a market demand component
10 that drives the volume of gas produced.

11 There was a display I wanted to ask you
12 about. I guess it's No. 3.

13 A. Is that the right one?

14 Q. Yes, sir. If you look at the red line,
15 you're looking at Permian conventional gas.
16 There's a dip in January of 92?

17 A. I think that's actually February.

18 Q. All right, February of 92. Is that a
19 reflection of price, or is that lack of market
20 demand that has caused that to spike downward?

21 A. Almost certainly, price. The spot
22 price at that time dipped to an all-time low of
23 around a dollar, and net backs to the wellhead
24 were considerably lower than that, and that is
25 almost certainly a reflection of price.

1 Q. When you look at this display and look
2 at the Permian Basin conventional gas, it appears
3 that perhaps earlier than 1991 there is a
4 seasonal cycle to the demand, and yet somewhere
5 in 91, and forward, it appears that demand
6 continues to be strong without regard to season.

7 Is that a fair characterization of what
8 that shows?

9 A. Well, it could be, yes. That's part of
10 it. I think also the U.S. or North American
11 supply/demand balance is more embalanced than it
12 was in early years, so there is far less gas
13 available even in the periods of low demand. To
14 some extent, I would agree with you.

15 Q. When you look at the San Juan Basin
16 conventional gas, is that same observation
17 applied to that gas? In other words, the
18 seasonal swing appears not to exist after
19 mid-91. As we go into 92, there looks to be no
20 seasonal adjustment in the demand taken for that
21 gas?

22 A. No, there's a different reason, and
23 that has to do with pipeline capacity. In early
24 91, the pipeline capacity expansions out of the
25 San Juan Basin were put in place by the major

1 pipelines. So. effective July 1991, there was no
2 restriction in pipeline capacity out of the
3 Basin.

4 CHAIRMAN LEMAY: 91 or 92?

5 THE WITNESS: 92. Excuse me.

6 Q. Is there still additional pipeline
7 capacity to take the demand that you forecast for
8 this next proration period, for the San Juan
9 Basin conventional gas?

10 A. Yes. There should be adequate
11 capacity, apart from a few peak times in the
12 winter when there might be some restrictions, but
13 certainly over most of the year there is more
14 than adequate capacity.

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

17 CHAIRMAN LEMAY: Additional questions
18 of the witness? Does my colleague across the
19 table have any questions?

20 MR. CARLSON: No questions.

21 CHAIRMAN LEMAY: Commissioner Weiss?

22 COMMISSIONER WEISS: Yes.

23 EXAMINATION

24 BY COMMISSIONER WEISS:

25 Q. On Chart No. 1, when is goes from an

1 decline to a incline, what causes that?

2 A. That's a hard question to answer. I
3 think there were a number of factors. One of
4 them was to do with the price of crude oil. I
5 think the price of crude oil stabilized and, to
6 some extent, increased, and, therefore, helped
7 the natural gas price to increase a little bit.

8 Certainly the availability of gas in
9 New Mexico, there was still a lot of gas
10 available, a lot of surface deliverability in
11 this state, so, our producers were inclined to
12 move to the market whereas maybe others were
13 not. It's a real hard question to answer, and
14 I'm not sure I know the answer.

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

17 COMMISSIONER CARLSON: I have a
18 question.

19 EXAMINATION

20 BY COMMISSIONER CARLSON:

21 Q. Ron, when did you begin your gas
22 marketing activities?

23 A. 1987.

24 CHAIRMAN LEMAY: Is there a correlation
25 there, you think, between your entry into the

1 marketplace and--

2 THE WITNESS: I have no comment, Mr.
3 Chairman.

4 CHAIRMAN LEMAY: Mr. Merrett, one
5 question.

6 EXAMINATION

7 BY CHAIRMAN LEMAY:

8 Q. Have you looked at the demand situation
9 in California, and is California still our main
10 market for New Mexico-produced natural gas?

11 A. Yes. The California market is still
12 the main market, as best we can tell, and it is
13 not all that easy to tell. As best we can tell,
14 about nine percent of New Mexico's production is
15 used in New Mexico. The balance is exported.
16 And of that balance, probably 90 percent goes to
17 California.

18 I've recently received some statistics
19 from the Canadians, who indicate that their
20 market share has fallen in 1992--their market
21 share in California has fallen in 1992, and it
22 fell in 1991, too, by a couple of points. That
23 clearly reflects an increase in gas in the
24 Southwest going into California.

25 In addition to that factor, there has

1 been less off-system gas flowing through New
2 Mexico to California and, therefore, my belief is
3 that most of the additional production in New
4 Mexico has gone to California.

5 Now, California demand has been fairly
6 flat over the last couple of years and it's
7 forecast to stay that way. Residential
8 consumption in California is increasing
9 slightly. Industrial consumption is increasing a
10 little, but a lot of industry is leaving
11 California and it's possible that consumption for
12 industrial use will be flat or reduced.

13 Electric generation demand is the big
14 question mark in California. The drought has now
15 been formally declared over by Governor Wilson,
16 and so I suppose it is over, but it means that
17 the reservoirs are full and there will be
18 additional hydroelectric production in 1993.

19 However, you have to balance that
20 against the nuclear power plants, a couple of
21 which are down for maintenance or refueling, so
22 it's really rather difficult to predict what
23 California's demand will be.

24 We do have fairly reputable
25 consultants. Cambridge Energy Research have

1 indicated to us that California demand in 1993 is
2 not likely to be more than about 200 million
3 cubic feet a day higher than 1992. So, I would
4 characterize California demand as being slightly
5 increasing to flat.

6 Q. I guess I would ask you, if we were to
7 increase our production, as your estimates would
8 indicate, would there have to be an increased
9 demand in California for us to meet that
10 projection, or is that based on, possibly, the
11 opening up of other markets or displacing other
12 sources of gas from the Midwest or other areas
13 into California?

14 A. Mr. Chairman, I do have one more slide,
15 if I can find it. This slide shows the U.S.
16 natural gas demand, and it was obtained--it comes
17 from an in-house study from the Canadian Energy
18 Mines and Resources Department. It's not an
19 official Canadian government document, but it is
20 an internal document from Ottawa.

21 This is simply a collection of various
22 forecasts of U.S. demand. The broken line, which
23 goes up in 1993, is one which is put on by me.
24 That's not a part of their original graph, but it
25 is probably around 20.4 trillion cubic feet in

1 1993.

2 In 1992, U.S. demand was expected to be
3 about 19-1/2, so there is something close to a
4 Tcf of additional demand in the United States in
5 1993.

6 We don't know where that will be
7 supplied from, whether it will be from Canada or
8 from the U.S. sources, but this is merely
9 intended to show you that there is increasing
10 demand for natural gas in North America. It's
11 very difficult to say just how big that demand
12 will be, but there's certainly additional demand
13 in North America.

14 CHAIRMAN LEMAY: Thank you. Additional
15 questions of the witness?

16 FURTHER EXAMINATION

17 BY COMMISSIONER WEISS:

18 Q. On Chart No. 7, was the purpose of
19 Chart No. 7 to support the goodness of your
20 forecast?

21 A. Yes.

22 CHAIRMAN LEMAY: Mr. Stovall?

23 FURTHER EXAMINATION

24 BY MR. STOVALL:

25 Q. One other question, Mr. Merrett.

1 Throughout your discussion you've really referred
2 to a price component. Is it fair to say, then,
3 that demand is really, in the true economic
4 sense, a demand at a specific price, and it is
5 somewhat price-driven presumably by both the
6 buyer and seller?

7 A. Yes. As a generality, the answer is
8 yes. I think, though, that when you have a
9 situation as you may have with coal seam gas,
10 where there are tax benefits to be obtained which
11 might otherwise be lost, then price becomes less
12 significant.

13 Q. So it's an economic relationship or a
14 decision that's made on both ends of the
15 exchange, though, is that correct?

16 A. That's correct.

17 CHAIRMAN LEMAY: Additional questions?
18 If not, you may be excused. Thank you, Mr.
19 Merrett.

20 We'll move back unless, Mr. Stovall, do
21 you have any slides to your presentation?

22 MR. STOVALL: I do not, Mr. Chairman.
23 And I assume Mr. Carroll has nothing further in
24 this, is that correct?

25 MR. CARROLL: Yes, that is correct.

1 CHAIRMAN LEMAY: Does anyone else have
2 any slides they'll be showing?

3 MR. STOVALL: I would call Mr. Larry
4 Van Ryan.

5 LARRY O. VAN RYAN

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

8 EXAMINATION

9 BY MR. STOVALL:

10 Q. Mr. Van Ryan, would you state your name
11 and place of residence, please?

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

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

15 A. I'm employed by the State of New
16 Mexico, the Oil Conservation Division.

17 Q. In what capacity?

18 A. As a chief petroleum engineer.

19 Q. Do your duties in that position as
20 chief petroleum engineer, include the preparation
21 of allowable schedules, maintenance of the
22 allowable schedules, oversight of the allowable
23 system, proration system?

24 A. Yes, they do.

25 Q. Are you familiar with the

1 recommendations or the information that is being
2 submitted by the Division to the Commission for
3 the purpose of determining the allowables for the
4 period starting in April of 1993?

5 A. Yes, I'm familiar with this those.

6 Q. Have you testified before the
7 Commission and the Division and had your
8 credentials as an engineer accepted as a matter
9 of record?

10 A. Yes, I have.

11 Q. Mr. Van Ryan, would you, just very
12 briefly, please, describe the process that the
13 Division goes through in order to prepare
14 exhibits and submit initial information to the
15 Commission to help it determine allowables for a
16 coming period?

17 A. Okay. As you're aware, our proration
18 is done on a six-month basis, so we take the
19 average six months' production from the same
20 period a year ago, to arrive at what the monthly
21 average pool sales are for all of our prorated
22 pools.

23 After that, we determine the marginal
24 and nonmarginal gas proration units in these
25 prorated pools, and we calculate what the

1 production is for the marginal portions of the
2 pools and nonmarginal portions of the pools, and
3 that's how we arrive at the allowable for the
4 nonmarginal well in the pools.

5 To walk over this a little better, in
6 the exhibits that we sent out prior to the
7 hearing and we now have today as Exhibit A and B
8 for the hearing, if we look at those, Line No. 1
9 is what we've determined is the average pool
10 production, by month, for the like period of
11 April 92 through September of 92.

12 Q. That's the same on both Exhibit A and
13 B, is that correct?

14 A. Yes, that's correct.

15 Q. Why don't you tell us what the
16 difference is between A and B. Why don't you
17 tell us why we have two exhibits.

18 A. Exhibits A and B are split up by the
19 portions of the state. Exhibit A applies to the
20 Southeast portion of New Mexico, and Exhibit B
21 applies to the Northwest portion. The reason for
22 that is, the proration is done differently in
23 those two areas.

24 In the Northwest, we use two components
25 to establish the allowable, one being the acreage

1 factor, the other one being the deliverability
2 factor from the wells. In the Southeast part of
3 the state, we only use acreage factor.

4 Q. Now, am I correct in understanding that
5 what you're saying is, Exhibits A and B, the Line
6 No. 1, average pool monthly sales, is based upon
7 the April through September 1992 period?

8 A. That's correct.

9 Q. Now, would you continue with your
10 explanation of the process?

11 A. Okay. We do not make any adjustments
12 to these as we send them out. We simply send out
13 exactly what happened. So, from Line 1 to Line
14 4, which we call the monthly pool allowable,
15 we've made no adjustments to those figures.

16 We've just cranked these through the
17 system to come up with bottom line No. 8, which
18 is the F1 factor for the Southeast part of the
19 state.

20 The components there are that we
21 determine what the monthly marginal pool
22 production is, the monthly nonmarginal pool
23 production, the number of nonmarginal acreage
24 factors, and with the nonmarginal production and
25 the acreage factors, we allocate the F1 factor

1 based on an acreage factor of 1.

2 For the Northwest, it's done a little
3 bit different. After we determine what the
4 monthly nonmarginal pool allowable is, without
5 adjustments likewise, we then determine
6 nonmarginal acreage factors and we also determine
7 a figure which is the deliverability figure times
8 the nonmarginal acreage factors.

9 Through a series of calculations, we
10 prorate or proportion a portion of the
11 nonmarginal pool allowable to the acreage factor
12 and to the deliverability factor, and we then
13 arrive at lines 9 and 10, one being a monthly
14 acreage factor allowable, and the other being the
15 acreage times the deliverability factor
16 allowable.

17 Q. So, if I understand you correctly, the
18 information on Exhibits A and B, none of that is
19 estimated, suggested, or recommended, all of that
20 is based upon history and it simply becomes a
21 mathematical calculation, going from Line 1 to
22 Line 8 on Exhibit A, and Line 1 to Line 10 on
23 Exhibit B, is that correct?

24 A. That's correct. There are no
25 adjustments put in here. This is just historical

1 information.

2 Q. Mr. Van Ryan, have you received any
3 nominations for any pools in the State of New
4 Mexico?

5 A. We did receive nominations from
6 Northern Natural Gas Company for the Tubb pool,
7 for the Blinebry pool, for the Eumont-Yates, for
8 the Jalmat pool, and for the Monument-McKee pool.

9 Q. Now, am I correct in assuming that
10 those nominations do not reflect on Schedule A
11 because the numbers that you have arrived at
12 would include that production amount based upon
13 the historical production?

14 A. The numbers we have arrived at do not
15 have any adjustments or nominations, so they're
16 not included in there, that's correct.

17 Q. But the amount that is not, that would
18 be nominated on Schedule A, would include the
19 volumes nominated by Northern Natural, is that
20 correct?

21 A. It would include that to the effect
22 that these may not--in the nomination situation,
23 they don't tell us what they took during the
24 period a year ago. They're only saying in this
25 like period in 1993, this is what they'll take.

1 We've not backed out the production from a year
2 ago. These may be higher or may be lower. They
3 did not provide us with that information.

4 Q. Now, again, you've stated that you have
5 no adjustments. Are you aware of any adjustments
6 which are going to be recommended by any operator
7 for any of the pools?

8 A. I've heard some various comments, but I
9 don't know for sure until we have the hearing
10 today.

11 Q. So, from that can I conclude that you
12 do not have, at this time, an opinion on whether
13 any specific adjustments for any pools should be
14 adopted by the Commission to adjust the
15 allowable?

16 A. No, I do not have any recommendations
17 on that.

18 Q. I just want to point out for
19 clarification, on Line No. 7 of Exhibit A, and I
20 would assume the same would be on Lines 8 and
21 9--7, 8 and 9 of Exhibit B, if there were any
22 change in our classification of a well proration
23 unit from marginal to nonmarginal or vice versa,
24 that would cause a mathematical adjustment which
25 could be done during the course of the period,

1 but which would affect the ultimate allowable
2 assigned to nonmarginal wells in any given pool,
3 is that correct?

4 A. Yes, that's correct.

5 Q. And it doesn't matter whether an
6 adjustment is made or not? That can occur during
7 at any time a well is reclassified within a
8 proration period?

9 A. Yes.

10 Q. Do you have anything further to add to
11 your testimony?

12 A. No, I believe that covers it.

13 Q. Were Exhibits A and B prepared by you
14 in the course of your duties as chief engineer?

15 A. Yes, they were.

16 MR. STOVALL: At this time, Mr.
17 Chairman, I would move the admission of Exhibits
18 A and B, and would also submit for the record the
19 nominations of Northern Natural Gas. They've not
20 been marked as an exhibit by the Division because
21 they were not prepared by the Division, they were
22 prepared by Northern and submitted, but should be
23 part of the record.

24 CHAIRMAN LEMAY: Without objection
25 those exhibits will be entered into the record.

1 Questions of Mr. Van Ryan? Mr.
2 Kellahin.

3 EXAMINATION

4 MR. KELLAHIN:

5 Q. Mr. Van Ryan, I would like to look at
6 Schedule B with you, which is the one for
7 Northwestern New Mexico. I want to address Line
8 1, for Basin-Dakota, and let you know that my
9 expert witness for Meridian will testify that his
10 tabulation of actual sales for the like period of
11 time that you're tabulating, is different than
12 yours.

13 A. Okay.

14 Q. He is going to testify that that
15 number, instead of being 8.1 Bcf, should be 8.8.
16 I'll ask you to look at that issue with us as we
17 explore it, because there is a substantial
18 difference in what we think that number is.

19 For clarification, are you taking this
20 number off the C-115s that are supplied to the
21 Oil Conservation Division?

22 A. Yes, we are. On the disposition side,
23 however, not on the production side.

24 Q. Okay. For the Blanco-Mesaverde, the
25 Meridian witness will testify that he believes

1 that average monthly pool sale number, less lease
2 use, should be 15.4 Bcf, so again there's going
3 to be a small difference in there. And I bring
4 that to your attention.

5 A. Okay.

6 Q. As part of your duties in processing
7 and handling the proration system, have you been
8 contacted by any interest owner of gas in a
9 prorated pool expressing concern or complaints
10 about the allowables being set, in terms of
11 denying them an opportunity to market their share
12 of gas?

13 A. Restate that, please.

14 Q. Are a lot of people asking you to make
15 adjustments upward in the allowable schedule?

16 A. We've had that happen, yes.

17 Q. Has anyone come forward with regard to
18 the current period and suggested that there needs
19 to be a downward adjustment?

20 A. No.

21 Q. Have you had any indication from any of
22 the interest owners in the prorated gas, that
23 their correlative rights are being impaired by
24 the allowable system, in terms of market demand?

25 A. No, we have not.

1 Q. Let me look with you on Schedule A, and
2 looking at the Indian Basin-Upper Pennsylvanian
3 Pool, when you look on the last line, Line 8, the
4 F1 factor for the calculation shows 172,000 Mcf?

5 A. Yes.

6 Q. Okay. I want to go back with you to
7 Indian Basin, to the current winter proration
8 period that we're in now, and show you an example
9 of what Mr. Stovall and you just discussed about
10 making adjustments for marginal and nonmarginal
11 wells.

12 When we discuss the Indian Basin-Upper
13 Penn, as an example or illustration, how the F1
14 factor can be affected by moving or reclassifying
15 wells from nonmarginal to marginal, Marathon's
16 proposed Exhibit No. 10 is an OCD memo dated
17 January 12, 1993, in which an adjustment is made,
18 reclassifying the MOK well from nonmarginal to
19 marginal, and making it effective as of October
20 1, 1992, if I recall correctly?

21 A. That's what it says, it looks like.

22 Q. When that adjustment is made, then,
23 there's a corresponding change in the F1 factor
24 for that pool for this winter proration period,
25 right?

1 A. Yes.

2 Q. And that result would have been a
3 change whereby the allowable, the F1 factor,
4 becomes 196,500?

5 A. Approximately. It says 495 here.

6 Q. That's the last line or the second to
7 the last line of the last paragraph, 196,495?

8 A. Yes, that's correct.

9 Q. For Indian Basin-Upper Penn, then, for
10 the nonmarginal wells that are producing in that
11 pool in the current winter period, that then
12 becomes the F1 factor for that entire proration
13 period?

14 A. As I read the letter, that's correct.

15 MR. KELLAHIN: No further questions,
16 Mr. Chairman.

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

19 EXAMINATION

20 BY MR. BRUCE:

21 Q. Just a couple of simple questions, Mr.
22 Van Ryan. Looking at Exhibit A, I'm here looking
23 at the Tubb pool in the extreme right column for
24 Exxon. If Exxon proposes a two- or three-percent
25 increase for the nonmarginal pool allowable, then

1 that would just, using the Item 7 divided by it,
2 would increase the monthly allowable for that
3 well, correct?

4 A. Yes. If there's an increase in the
5 nonmarginals and the number of nonmarginals
6 acreage factors would remain the same, it would
7 result in an increase.

8 MR. BRUCE: Okay. I haven't been here,
9 Mr. Van Ryan, in about six years.

10 CHAIRMAN LEMAY: Any more questions?

11 MR. STOVALL: I could wait for the
12 Commissioners, but I have one.

13 CHAIRMAN LEMAY: Go ahead.

14 FURTHER EXAMINATION

15 BY MR. STOVALL:

16 Q. In response to Mr. Kellahin, you said
17 nobody has approached you, complaining about
18 impairment of their correlative rights.

19 Am I correct in understanding that the
20 answer to that question relates to the tentative
21 schedule you sent out for this period? You're
22 not talking in general, or are you talking just
23 this period?

24 A. I was just talking in general. The
25 question was addressed, has anybody called me

1 complaining about not having enough allowable,
2 they have, but I've not had anybody call saying
3 their correlative rights are being impaired.

4 MR. STOVALL: Okay.

5 CHAIRMAN LEMAY: Commissioner Carlson?

6 COMMISSIONER CARLSON: No questions.

7 CHAIRMAN LEMAY: Commissioner Weiss?

8 COMMISSIONER WEISS: No questions.

9 CHAIRMAN LEMAY: I have only one, Mr.
10 Van Ryan.

11 EXAMINATION

12 BY CHAIRMAN LEMAY:

13 Q. You mentioned that that letter was
14 addressing the Monument and McKee field. I don't
15 see that on here. Is that a field that used to
16 be prorated, or am I not seeing that?

17 A. It's in the lower left-hand corner of
18 Exhibit A, where it has the F1 factor as 25,000,
19 on the very bottom.

20 CHAIRMAN LEMAY: Oh, I see. Okay.

21 Thank you.

22 Additional questions? If not, the
23 witness may be excused. Thank you.

24 Mr. Kellahin?

25 MR. KELLAHIN: Mr. Chairman, if there's

1 no objection, I would propose to address the
2 Northwest prorated pools first, and then to come
3 back later to the Southeastern prorated pools.

4 CHAIRMAN LEMAY: Does anyone have a
5 problem with that? Does anyone have a preference
6 other than that?

7 MR. STOVALL: I think that's fine.
8 We've discussed that ahead of time, and I think
9 it will get some people out of the room earlier.

10 CHAIRMAN LEMAY: We'll do that, then.
11 Are you prepared to proceed, Mr. Kellahin, with
12 your Northwest witnesses?

13 MR. KELLAHIN: Yes. Mr. Chairman,
14 we'll call at this time Mr. Jim Fraser, a
15 petroleum engineer with Meridian Oil Company.

16 Mr. Chairman, in order to give the
17 Commission a quick reference as to what has been
18 the action of the Commission in establishing
19 allowables in the Northwest prorated pools over
20 the last three or four allowable hearings, I have
21 marked, as Meridian Exhibit No. 10, a package of
22 those schedules so you can go back and see what
23 you did in August and then February of 90, and
24 then the year ahead of that time, and I thought
25 it might be helpful to have those available for

1 discussion.

2 Exhibit 10 is in chronological order,
3 starting with the October 91 through March 92
4 proration schedule for Northwest, and then it
5 finally ends with a copy of the Division's
6 preliminary schedule that Mr. Van Ryan discussed
7 a while ago.

8 **JAMES B. FRASER**

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

11 EXAMINATION

12 BY MR. KELLAHIN:

13 Q. Good morning, Mr. Fraser.

14 A. Good morning, Mr. Kellahin.

15 Q. Please state your name and occupation.

16 A. My name is James B. Fraser. I'm a
17 production superintendent for Meridian Oil, Inc.,
18 in Farmington, New Mexico.

19 Q. You testified at the last allowable
20 hearing on behalf of your company for your
21 nominations or requests in adjustments for
22 certain prorated pools in the San Juan Basin?

23 A. Yes, sir, I did.

24 Q. And you've continued doing that for
25 your company?

1 A. Yes, sir, I have.

2 Q. Based upon your employment, do you have
3 recommendations to the Commission for adjustments
4 in certain of the prorated gas pools?

5 A. Yes, sir. We have recommendations for
6 three of the prorated pools in Northwest New
7 Mexico.

8 MR. KELLAHIN: Mr. Chairman, I would
9 tender Mr. Fraser as an expert witness.

10 CHAIRMAN LEMAY: His qualifications are
11 acceptable.

12 Q. So we have a clear understanding of
13 where you're headed and what direction you're
14 going with your testimony, Mr. Fraser, would you
15 summarize for us the adjustment factor, in Bcf of
16 gas, that you would like to put into the schedule
17 that's been introduced, starting first of all
18 with the Basin-Dakota.

19 A. Yes sir, I will. If everyone would
20 refer to Exhibit No. 2 in the packet that was
21 just passed out, it has Meridian's recommended
22 adjustments that we would like to see made to the
23 recommendation of the OCD.

24 In the Basin-Dakota, we would recommend
25 an increase or adjustment of 2 Bcf per month for

1 the Dakota pool; for the Mesaverde, we would like
2 to see an increase of 3 Bcf per month; and for
3 the Blanco P.C. South, our recommendation is an
4 adjustment of a positive 150,000 Mcf per month.

5 Q. To make the adjustment on Exhibit No.
6 2, when you say "current," what does current
7 mean?

8 A. "Current" is the number that was
9 published by the OCD, and that is their
10 recommendation.

11 Before we go any farther, I would like
12 to contradict Mr. Kellahin a little bit. I'm not
13 going to testify as to the accuracy of the OCD's
14 numbers on the current values, "current" being
15 the April through September numbers of last year.
16 All my recommendations are based on those
17 numbers, so I don't really want to get into the
18 accuracy of the numbers.

19 What I'm going to testify to is based
20 on the OCD numbers, and my adjustments are
21 recommended based on their original numbers.

22 Q. I understand, but in reviewing your
23 production information for actual sales during
24 that period, you happen to have a number that's
25 higher than what Mr. Van Ryan has?

1 A. Yes, I do, and that probably reflects a
2 higher adjustment, but I stand with the
3 adjustment that I just testified to. That is,
4 the total is really the key number as far
5 Meridian is concerned.

6 Q. I understand. Let's go back now and
7 have you identify Exhibit No. 1 for us.

8 A. Exhibit No. 1 is entitled "Northwest
9 New Mexico," and the subtitle is "Reasons for
10 Increased Production."

11 What Meridian and all the other
12 operators in the San Juan Basin have seen, have
13 been too dramatic changes in the marketplace in
14 the last 12 to 18 months, and those are
15 identified with the bullets, the first being that
16 there's been an increased pipeline capacity out
17 of the San Juan Basin.

18 In April of 1992, two major pipeline
19 companies, El Paso Natural Gas and Transwestern,
20 expanded their take-away capacity out of the San
21 Juan Basin. That has, of course, decreased field
22 pressures back to the wellhead and has increased
23 the wells' ability to deliver gas.

24 The second point is that we've seen an
25 increase and a firming of natural gas prices in

1 the last 18 months. I believe Mr. Merrett
2 referred to that briefly, but the prices now, as
3 a matter of fact late this fall, were at record
4 level from what we've seen in 10 years in the San
5 Juan Basin.

6 Q. What have you concluded about the
7 market demand for production of prorated gas out
8 of the three prorated pools that you've
9 identified on Exhibit No. 2, if the Commission
10 makes the adjustments that you've proposed?

11 A. The adjustments we've proposed, the
12 totals there are very much in line with what
13 current production out of those prorated pools
14 are. And by "current," I mean in the last six,
15 seven months of 1992, and the first month of
16 1993, we've seen total pool production values
17 approximately the same as what our recommended
18 total pool allowable is.

19 Q. The Division's schedule has calculated
20 on a monthly average for the summer of 91 on Line
21 1 of the schedule, and used that, then, to
22 calculate and forecast the allowables for the
23 summer of 93, going from 92 to 93, all right?

24 A. Uh-huh.

25 Q. Is that representative of what you see

1 to be the market demand for gas from these
2 prorated pools?

3 A. No, sir. I think the market demand is
4 in excess of last summer's average values.

5 Q. Do you see any seasonal cycle or
6 seasonal swing in the market demand for these
7 pools, between the summer of 92 and the summer of
8 93?

9 A. No, sir, I don't. In conversations
10 with our marketing people in our Houston
11 corporate office, they tell me that there will
12 not be a seasonal demand, that the market will
13 remain strong. Throughout the summer months, the
14 demand for New Mexico gas will remain strong at
15 the current levels that we're currently
16 producing.

17 Q. Do you see any bottleneck in the
18 pipeline capacity to take gas out of the prorated
19 gas pools, if allowables are set as you propose?

20 A. No, sir, I don't. El Paso Natural Gas,
21 which is the largest gatherer in the Basin, has
22 some excess capacity right now. The numbers that
23 I'm going to recommend are, essentially, the same
24 as what we currently see as take-away production
25 out of the Basin. So, with their increased

1 capability to take gas out of the Basin, I think
2 that will remain the same.

3 Q. Do you see any indication that there
4 are owners of gas that's prorated that are denied
5 access to market?

6 A. No, sir, I certainly do not.

7 Q. Let's turn to Exhibit No. 3 and have
8 you identify and describe that display.

9 A. Exhibit No. 3 is a month-by-month
10 production plot of the Basin-Dakota pool
11 production. The units on the left-hand side of
12 the exhibit are in Bcf per month; on the
13 right-hand side of the exhibit I've got actual
14 production, which is the solid black line through
15 November of 1992.

16 The last two solid squares you see
17 there are my estimates for December and January
18 of 1993.

19 Q. What's the significance of the two
20 stars?

21 A. The two stars, which are in June and
22 July of 1992, were my predictions of what the
23 pool production was going to be six months ago.

24 When I testified before this Commission
25 last August, I testified that the June production

1 that I would estimate out of the Dakota pool
2 would be 8.1 Bcf per month. The actual number
3 was 8.2 Bcf per month. In July, my estimate was
4 9.4 Bcf per month. The actual production for
5 that month was 9.1 Bcf.

6 The point of the stars is to show that
7 the method that I've used to estimate, on the
8 tail end of my exhibit there, does have some
9 validity as shown by what has happened in the
10 production of the pool six months ago.

11 Q. What adjustment did you propose the
12 Commission use in the August allowable hearing
13 last year?

14 A. We recommended a 2 Bcf per month
15 increase or adjustment in the Dakota pool.

16 Q. Let's turn now to Exhibit 4. Identify
17 and describe that display.

18 A. Exhibit No. 4 is a similar presentation
19 as Exhibit No. 3, however this is for the
20 Blanco-Mesaverde pool. Once again, Bcf per month
21 production is labeled on the left-hand vertical
22 column. The solid black line represents the
23 actual production for the pool for the two-year
24 time frame, from January of 91 through January of
25 1993.

1 Once again, to show the validity of my
2 estimate methodology we used six months ago in
3 June--or I predicted in June of 1992 that the
4 estimated production of the Mesaverde pool would
5 be 14.1 Bcf. The actual value was 13.8 Bcf a
6 month.

7 In July, my estimate was 16.0 Bcf a
8 month. The actual value was 15.9 Bcf a month.
9 Once again, the point being that the methodology
10 I've used to estimate the last two months on the
11 curve does have some validity.

12 Q. Let's go to Exhibit No. 5, sir.

13 A. Exhibit No. 5 is simply a tabulation of
14 what the previous plot showed. I've got three
15 columns here, labeled "1991," "1992," and then
16 the difference being a percent of 92 divided by
17 1991.

18 I've got the time frame from August of
19 1991 through January of 1993. What I'm doing is
20 comparing like months from 1992 to 1991.

21 As the tabulation shows, we've seen a
22 dramatic increase in Dakota production in that
23 six-month time frame, from 92 to 91. The average
24 number is listed on the bottom, which shows that
25 for 1992 the average production per month was 9.8

1 Bcf as opposed to the 1991 average for the same
2 time frame as 7.2 Bcf a month, which is a
3 36-percent increase.

4 I think that is a direct impact of the
5 two factors I mentioned at the outset of my
6 testimony. The pipeline capacity expansions out
7 of the Basin and the firming and increase of
8 natural gas prices.

9 Q. Let's turn to Exhibit 6 and have you
10 identify and describe that display.

11 A. Exhibit No. 6 is a tabulation of the
12 Mesaverde production within the same time frame,
13 1992 versus 1991. As you can see, the production
14 increase in the last six months has been
15 significantly higher than the previous like time
16 frame in 1991.

17 As the numbers on the bottom, the
18 average value shows, the 1992 average production
19 for the last six months was 17.2 Bcf versus a
20 1991 value of 12.2 Bcf, a 41-percent increase.
21 And I think that's a direct impact from the
22 factors mentioned previously.

23 Q. Let's look at Blanco P.C. South,
24 Exhibit 7.

25 A. A similar exhibit to Nos. 5 and 6. It

1 shows the monthly production for 1992 versus
2 1991.

3 As you can see on the last line there,
4 the average production for that six-month time
5 frame in 1992 is 1.4 Bcf per month, as opposed to
6 1.0 Bcf per month in 1991, or a 40-percent
7 increase over the same time frame.

8 Q. As part of your study, have you
9 examined whether or not the increased sale of gas
10 out of the prorated pools has had any effect on
11 pipeline pressures whereby low-capacity wells may
12 have been impaired in their ability to access the
13 market and produce their share?

14 A. Yes. I have looked at pipeline
15 pressures, and that falls with Exhibit Nos. 8 and
16 9, and it shows some historic pool production
17 values and also some gathering pressures out in
18 the field that are an impact or a cause for that
19 production value.

20 Q. Let's start with the Blanco-Mesaverde,
21 and give us a time reference in terms of the
22 additional capacity added to the pipeline system
23 in Northwest New Mexico and what the changes have
24 been in the pipeline pressure.

25 A. As I previously mentioned, in April of

1 1992, the expansions out of the Basin were in
2 place. El Paso's expansion increased capacity of
3 800 million cubic feet per day out of the Basin.
4 Transwestern's was 500 million cubic feet per day
5 increase out of the Basin, for a total of 1.3 Bcf
6 per day increase out of the Basin.

7 With that increased take-away capacity,
8 the pressures out in the field on the gathering
9 systems actually have decreased an average of 100
10 psi. And Exhibit Nos. 8 and 9 show what impact
11 that has made to the pool production.

12 You alluded to the Blanco-Mesaverde
13 pool. If you look at Exhibit No. 9, that has a
14 bar graph tabulation of the average monthly
15 production, since 1982, of the Blanco-Mesaverde
16 pool. Also noted in several triangles on the
17 exhibit are the field-wide gathering system
18 pressures existent during that same time frame.

19 As you can see in 1982, the field
20 pressure was in the 260 psi range. In 1991, the
21 pressure had increased to approximately 390 psi.
22 Consequently, you can see that the production of
23 the pool had decreased significantly.

24 The 1982 value was in excess of 16 Bcf
25 per month; the 1991 value was slightly less than

1 13 Bcf a month. In 1992, as a result of these
2 expansions out of the Basin, the field-wide
3 pressure has dropped to approximately 300 psi.
4 Consequently, the pool production has increased
5 to over 15 Bcf per month, which is the highest
6 value that the pool has seen since 1982.

7 Q. If we make the adjustment that Meridian
8 is proposing in the Blanco-Mesaverde prorated
9 pool, will that have a material effect on
10 pipeline pressures?

11 A. No, sir, it won't. We're currently
12 producing in excess of 17 Bcf a month out of the
13 Mesaverde, and pipeline pressures have stabilized
14 in the last several months.

15 Q. When we look at the Blanco-Mesaverde,
16 then, you are seeking an allowable level that is
17 comparable allowable level for the summer
18 proration period of 93 that is comparable to the
19 one you now have in the winter of 92?

20 A. Yes, we are.

21 Q. Okay. Let's turn now to the
22 Basin-Dakota and examine the pipeline pressure
23 for wells producing in that pool.

24 A. Exhibit No. 8 is a similar presentation
25 for the Basin-Dakota. Once again, the average

1 monthly production on a Bcf basis, since 1982,
2 are plotted on the vertical bar. The triangles
3 represent the same pipeline pressures I
4 previously testified to.

5 In 1982, with the pipeline pressures
6 being approximately 260 psi, the pool production
7 on the Dakota was slightly less than 12 Bcf.
8 That production value decreased to 1991, to a
9 value of slightly under 7 Bcf per month at a
10 pipeline pressure of 390 psi.

11 As pipeline pressures have dropped to
12 the 300 psi range, pool production has increased
13 to about 8.7 Bcf per month. That's the highest
14 pool production since 1987.

15 Q. With regards to the adjustment you
16 propose to make in the Basin-Dakota pool, how
17 does that adjustment equate to what the allowable
18 is in the current winter of 92 proration
19 schedule?

20 A. The allowable for the current time
21 frame we're in, October of 92 to March of 93, the
22 current allowable is 9.1 Bcf per month. We're
23 asking that the summer allowable be set at 10.2
24 Bcf a month, an increase or an adjustment,
25 rather, of 2 Bcf a month. 10.2 Bcf a month is

1 consistent with what we see in current production
2 out of the pool.

3 As I previously testified, I do not
4 believe we we will see a summer downward revision
5 or downward trend in production for these
6 upcoming summer months.

7 Q. Do you see any material effect on
8 pipeline pressures, if the Commission approves
9 the allowable adjustment you're seeking for the
10 Basin-Dakota pool?

11 A. No, sir, I don't. Pipeline pressures
12 have stabilized in roughly the last four to five
13 months, and we have seen very little difference
14 in pipeline pressures since the production has
15 increased.

16 MR. KELLAHIN: Mr. Chairman, that
17 concludes my examination of Mr. Fraser. We move
18 the introduction of Meridian Exhibits 1 through
19 10.

20 CHAIRMAN LEMAY: Without objection,
21 Exhibits 1 through 10 will be admitted into the
22 record.

23 Questions of the witness?

24 MR. STOVALL: None.

25 CHAIRMAN LEMAY: Commissioner Carlson?

EXAMINATION

BY COMMISSIONER CARLSON:

Q. Mr. Fraser, of the three pools, let's start with the Basin-Dakota pool, what percent of the current production does Meridian market?

A. We produce 31 percent of the Basin-Dakota pool.

Q. Is that where you are the operator of the well that produces?

A. Yes, sir. We operate the wells that cumulatively produce 31 percent of the pool production.

Q. Do you know what percent of the current production that Meridian actually markets; in other words, that it buys at the wellhead from other producers and markets?

A. We market about 75 percent of the total production that we produce on a gross basis.

Q. So, I could take the 31 percent times 75 percent, and that's what Meridian Oil markets out of the Basin-Dakota pool?

A. That 75 percent is on a cumulative basis of what we produce daily. I don't know on a pool-wide basis what the percentage is, sir.

Q. Okay. And I assume Meridian is also

1 purchasing at the wellhead from other parties and
2 marketing that gas?

3 A. For the most part, we market the gas on
4 the wells that we operate. Some of that is other
5 working interest owners' gas.

6 Q. Okay. What I'm getting at is, if you
7 check with Houston and they say they can continue
8 marketing levels during the summer as they have
9 over the last few months, but if we're only
10 talking about 31 percent of the production, have
11 you checked with other operators in those pools
12 to see if they can also continue to market at the
13 levels they had?

14 A. Informally I have, sir, and I think
15 those parties are going to testify subsequent to
16 my testimony, essentially the same comments that
17 I have, that they will be able to move as much
18 gas as they currently are. But, once again, I'm
19 not going to put words in their mouth. I think
20 the major operators are going to succeed my
21 testimony.

22 Q. Fine. What percent of the
23 Blanco-Mesaverde pool does Meridian produce?

24 A. In December of 1992, we produced 47
25 percent of the Mesaverde production.

1 Q. And the Blanco Pictured Cliffs?

2 A. 31 percent.

3 COMMISSIONER CARLSON: Okay. Thank
4 you.

5 CHAIRMAN LEMAY: Commissioner Weiss?

6 EXAMINATION

7 BY COMMISSIONER WEISS:

8 Q. Yes. On Exhibit 2, your requested
9 adjustments, do they reflect Ron Merrett's
10 comments concerning the California market as he
11 sees it?

12 A. I think that's a reflection of it,
13 sir. I did not talk to Mr. Merrett prior to his
14 testimony, but I believe Mr. Merrett's testimony
15 was that the California market is increasing, if
16 not at the very least being stable to what it's
17 been recently.

18 Q. Assume it's stable, is there enough
19 market there to take these adjustments?

20 A. Yes, sir, I believe that's correct,
21 because we're currently selling this much gas.

22 Q. Then, on Exhibits 3 and 4, you showed
23 the goodness of your estimates for June and
24 July. What about August and September? Were
25 they similar?

1 A. I did not make estimates for August and
2 September because we were here in August, and I
3 didn't redo this until roughly a month ago. So I
4 did not make any estimates for them.

5 COMMISSIONER WEISS: That's all the
6 questions I have. Thank you.

7 CHAIRMAN LEMAY: I have no questions.
8 Additional questions of the witness? If not, he
9 may be excused.

10 Thank you, Mr. Fraser. Mr. Kellahin?

11 MR. KELLAHIN: Thank you, Mr. Chairman.
12 Call Kirk Czirr, on behalf of Phillips Petroleum
13 Company.

14 KIRK CZIRR

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

17 EXAMINATION

18 BY MR. KELLAHIN:

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

21 A. My name is Kirk Czirr. I'm a field
22 development superintendent for Phillips Petroleum
23 Company in Farmington, responsible for reservoir
24 engineering and geology.

25 Q. You'll have to speak up. It's going to

1 be hard to hear you.

2 A. Okay.

3 Q. At the allowable hearing the Commission
4 held back in August of 92, did you qualify as an
5 expert witness and provide testimony on behalf of
6 your company concerning allowable adjustments in
7 certain of the prorated gas pools in San Juan
8 Basin, New Mexico?

9 A. Yes, sir, I did.

10 Q. Have you continued your employment and
11 your study of the prorated pools on behalf of
12 your company?

13 A. Yes, sir.

14 Q. Do you have recommendations to the
15 Commission concerning adjustments to be made in
16 the preliminary schedule for the summer proration
17 period that is under consideration today?

18 A. We do.

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

21 CHAIRMAN LEMAY: His qualifications are
22 acceptable.

23 Q. Let me have me have you turn to Exhibit
24 No. 1, Mr. Czirr. Would you identify and
25 describe that display for me?

1 A. Okay. This is a graph. I showed a
2 similar one at the last hearing for the San Juan
3 Basin-Dakota pool, a graph of monthly gas
4 production in Bcf per month, and also overlaying
5 on that gas price in dollars per MMBTU. That gas
6 price is El Paso Natural Gas price at the Blanco
7 hub.

8 What the graph is intended to show is
9 historically, over the last four years, the
10 strong correlation between gas price and gas
11 production out of the pool. And, as Mr. Fraser
12 with Meridian has mentioned, we have seen a
13 change in characteristics over the last year or
14 so, whereby during the summer of 92, we saw
15 significantly higher gas prices than what we had
16 seen in previous summers. And, consequently, we
17 saw significantly higher production as well.

18 Q. In your opinion, will it be
19 representative of the market demand for the
20 Basin-Dakota to set allowables based upon the
21 preliminary schedule introduced in hearing
22 without adjustment?

23 A. No, sir.

24 Q. What adjustment do you propose to make
25 in the Basin-Dakota pool?

1 A. Phillips proposes a 2.6 Bcf per month
2 adjustment to the OCD mailing.

3 Q. Let's turn to page 2, or Exhibit 2.
4 Before we talk about how to read the spread
5 sheet, let's start with the conclusion. After
6 analyzing the information and compiling it on
7 your spread sheet, Exhibit No. 2, what's the
8 point you conclude?

9 A. That we need significant adjustment to
10 the proposed allowables as proposed by the OCD,
11 in order to obtain an allowable on an individual
12 gas proration unit basis that is sufficient to
13 encourage continued development.

14 Q. You're looking at the opportunity to
15 develop infill wells in the Basin-Dakota?

16 A. Yes, sir.

17 Q. And right now the parent well takes a
18 certain portion of the allowable?

19 A. Yes, sir.

20 Q. Have you examined to determine whether
21 or not, with the parent well taking its share of
22 the allowable for the GPU, there's a sufficient
23 margin in the allowable for the GPU to justify
24 the infill well?

25 A. There's not sufficient incremental

1 allowable to justify that infill well, unless you
2 go with the type of adjustments that we are
3 recommending here today, in my opinion.

4 Q. Take us to Exhibit 2, and give us an
5 illustration of how you justify that conclusion.

6 A. Okay. I guess just to start, basically
7 in Exhibit 1 we were looking at the pool capacity
8 and we were trying to talk about some allowables
9 that are consistent with the overall ability of
10 the pool to produce and what it has historically
11 produced.

12 In this exhibit, we're again trying to
13 look more at what does the allowable mean to an
14 individual gas proration unit in terms of being
15 able to justify investment to develop that GPU.

16 As an example, what this spreadsheet
17 does is compares the nonmarginal pool allowable
18 to the gas proration unit allowable, for various
19 scenarios of deliverability and various scenarios
20 of nonmarginal pool allowable.

21 One of the middle columns in the spread
22 sheet at the top says "April 92 to September 92
23 actuals." This represents the nonmarginal pool
24 allowable that was actually included in the order
25 for that period, of just over 4 Bcf per month in

1 the subsequent F1-F2 factors.

2 If I proceed on down that column to the
3 next set of numbers, I'm trying to determine what
4 my allowable would be on a GPU basis, if that GPU
5 had a deliverability of 425 Mcf a day.

6 Q. Let me stop you for a moment.

7 A. Okay.

8 Q. If you go back to Meridian's Exhibit
9 No. 10 and look at page 2, that is the spread
10 sheet off the Commission order, and if you'll
11 look at line 6, that's the nonmarginal pool
12 allowable, and that's the number you've called
13 "actual" in the second column of your spread
14 sheet on Exhibit 2?

15 A. Yes.

16 Q. The next column over, where it says OCD
17 proposal, that's simply the nonmarginal allowable
18 for Basin-Dakota off the spread sheet that was
19 introduced earlier here?

20 A. Yes, sir.

21 Q. And then when we look at Phillips'
22 proposal, that's the nonmarginal pool allowable
23 if you factor in 2.6 additional adjustment?

24 A. Yes, sir.

25 Q. Take us there and show us what that

1 means, in terms of a GPU allowable.

2 A. For the Phillips' proposed adjustment?

3 Q. Yes, sir.

4 A. Okay. If you go down the Phillips'
5 proposed adjustment, which is the furthest right
6 column on the spread sheet, you'll see a number
7 circled, 1.01. What that is saying is, for a 650
8 Mcf a day GPU deliverability with the Phillips'
9 proposed adjustment, your allowable would indeed
10 be, essentially, that 650 Mcf a day; such that
11 for all deliverabilities at or below 650 Mcf a
12 day, you would be able to produce at your
13 deliverability. For deliverabilities in excess
14 of 650 Mcf a day, you would again be curtailing
15 production.

16 And the basis for that number is,
17 again, when we're looking at infill drilling,
18 oftentimes we have an existing parent well that's
19 producing 200, 250 Mcf a day of gas. You know
20 you need to drill an infill well to recover the
21 additional reserves; and yet, if you don't have a
22 substantially high allowable, there's not enough
23 incremental allowable to justify that development
24 well.

25 Q. Show us how you get the 2.6 adjustment

1 in this pool in order to provide you sufficient
2 allowable incentive in a 320 gas proration unit
3 to justify the infill well.

4 A. Okay. If I have an existing parent
5 well again that's producing 200 Mcf a day, with
6 the Phillips' proposed allowables, I would be
7 guaranteed at least 400 to 450 Mcf a day of
8 incremental allowable to aid me in justifying the
9 drilling of that well.

10 Q. If you factor in an adjustment that
11 will take the GPU allowable to 750 a day, where
12 on the spread sheet do you show that calculation?

13 A. Well, okay. If the GPU deliverability
14 was 750 Mcf a day, then your actual granted
15 allowable under our proposal would be 94 percent
16 of that. So you would be curtailing at that
17 point.

18 I guess one other thing I would like to
19 mention, again we're in the same position as
20 Meridian in that we're seeing less and less
21 seasonal variation from summer to winter, in
22 terms of price and, therefore, volume.

23 I would like to point out that the
24 Phillips' proposed adjustment, looking at it on
25 an individual GPU basis, is very, very similar to

1 what has been granted under the current proration
2 period.

3 The current proration period is set up
4 such that we don't start actually curtailing
5 until we achieve a GPU deliverability in excess
6 of 625 Mcf a day, and that's very close to what
7 I'm asking for today.

8 Q. Let's turn to Exhibit No. 3 and have
9 you summarize what's contained on that exhibit.

10 A. Okay. This is simply a summary, as far
11 as the Basin-Dakota pool goes. Historically,
12 Phillips has sought total pool allowables for the
13 Basin-Dakota in a 10 to 11 Bcf per month range.
14 I know that in recent months we have exceeded 10
15 Bcf per month in production.

16 We've sought these pool allowables for
17 two reasons: No. 1, we felt they were reflective
18 of the pool's ability to produce; and, No. 2, we
19 felt that level of allowable was sufficient to
20 justify investment on an individual gas proration
21 unit basis.

22 Q. Does Phillips find that they have a
23 market demand for the additional gas that would
24 be produced if your proposed adjustment is made
25 in this pool?

1 A. Yes, sir.

2 Q. Let's turn now to Exhibit No. 4 and
3 look at the Blanco-Mesaverde.

4 A. This is a similar plot to what Exhibit
5 1 was, except we have the Blanco-Mesaverde gas
6 production and again gas price plotted versus
7 time.

8 Again, we see a somewhat similar
9 relationship of gas price versus gas production
10 there. Again, we see that during the summer 1992
11 proration period, as gas prices increased, so did
12 gas production. And, in fact, it exceeded 17 Bcf
13 which, as Meridian had pointed out, was the
14 highest production we had seen in quite some
15 time.

16 Q. What's Phillips' proposed adjustment in
17 the Blanco-Mesaverde pool?

18 A. 2.7 Bcf per month adjustment.

19 Q. Summarize for us why you're seeking to
20 make that level of adjustment.

21 A. I would like to go to Exhibit No. 5.

22 Q. Okay.

23 A. And, without going through all the
24 numbers in Exhibit No. 5, the top part of the
25 exhibit is a spread sheet set up very similar to

1 what the Basin-Dakota was.

2 The problem with the Mesaverde, as we
3 see it, we would like to have continued
4 development of the Mesaverde principally through
5 compression projects to lower back-pressure on
6 the wells and increase both production rate and
7 ultimate reserves from those wells.

8 Q. Does the allowable schedule, as
9 produced by Mr. Van Ryan, without an adjustment,
10 provide the necessary incentive for Phillips to
11 do the compression work it feels is required to
12 increase the deliverability of the
13 Blanco-Mesaverde pool?

14 A. No, sir, it does not.

15 Q. Show us an example of how your level of
16 allowable adjustment provides that incentive.

17 A. Okay. If you wanted to look at the
18 column titled April 93 to September 93, Phillips'
19 proposed numbers, that's the far right column
20 that has the 2.7 Bcf per month adjustment, built
21 into it giving us a nonmarginal pool allowable of
22 8.1 Bcf per month, as you continue down that
23 column, when you get to a GPU deliverability of
24 800 Mcf a day, then at that point your allowable
25 is equal to that 800 Mcf a day deliverability.

1 For deliverabilities less than 800, you have no
2 curtailment. For deliverabilities in excess of
3 800, you start curtailing.

4 One thing I would like to point out
5 which is an important part of looking at
6 compression projects, and this is illustrated on
7 the bottom of this exhibit, the way your actual
8 deliverability is calculated is a function of
9 your measured deliverability out in the field, a
10 formula which compairs how hard you're drawing
11 the well down to get to that measured
12 deliverability.

13 For Mesaverde compression projects, the
14 typical pressures that you see, both shut-in
15 pressures and flowing tubing pressures on
16 compression, what happens is, if you go through
17 the calculation, your calculated deliverability
18 will end up only being approximately 65 to 70
19 percent of what your actual measured
20 deliverability is out in the field.

21 So, if I've got a Mesaverde well on
22 compression and it has a physical deliverability
23 of 600 Mcf a day, the calculated deliverability
24 will only turn out to be 400 Mcf a day.

25 Q. How does that affect you, in terms of

1 the allowable?

2 A. Since in the Mesaverde pool, the vast
3 majority of your allowable is driven by your
4 deliverability, the method for calculating
5 deliverability itself becomes a proration or a
6 curtailment tool.

7 Q. 60 percent of the formula is
8 deliverability?

9 A. 75.

10 Q. 75 percent in this pool?

11 A. Yeah. So, what I was trying to achieve
12 with our proposal here is an adjustment such that
13 we still have a system for proration and
14 curtailment, but don't necessarily take a double
15 hit where we're getting a dramatically reduced
16 calculated deliverability and then, on top of
17 that, getting prorated and curtailed because of
18 the lack of adjustment in the allowable figures.

19 Q. Without running through the details of
20 the engineering calculations, what, in summary,
21 is your conclusion about the necessary adjustment
22 in this pool in order to provide incentive to add
23 compression to the GPU?

24 A. My opinion is that the Phillips'
25 proposed adjustment, 2.7 Bcf, should really be

1 considered a minimum. I know Meridian testified
2 they are requesting a 3 Bcf increase. I have no
3 problem with that at all and can support that.
4 We need those types of adjustments to make it
5 feasible.

6 In addition to that, it's really
7 outside the scope of this hearing, but it's
8 probably a situation where we might want to look
9 at establishing minimum allowables for a pool in
10 this type of situation.

11 Q. All right. Let's turn to Exhibit 6.
12 You have written down your summary conclusions
13 you've just verbalized?

14 A. Yes. Basically, again, with the
15 Phillips' proposed adjustment, that would bring a
16 total pool allowable to 17 Bcf per month. We
17 have, in fact, exceeded that in recent months.

18 We also feel that reservoir-related
19 correlative rights are not really in issue here.

20 Concerning compression projects,
21 Phillips is evaluating a 120-well Mesaverde
22 compression project in our San Juan 29-5 and 29-6
23 units. It is still in the evaluation stage and
24 really in the negotiation stage with the gas
25 gatherers, but obviously our ability to have

1 sufficient allowable to make it an economical
2 project, will have tremendous bearing on whether
3 we proceed with the project itself.

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

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

10 Questions of Mr. Czirr? Commissioner
11 Carlson?

12 EXAMINATION

13 BY COMMISSIONER CARLSON:

14 Q. Is your infill drilling program in the
15 Basin-Dakota ongoing, or are they drilled and
16 waiting to be produced?

17 A. Not at the present time. Our situation
18 is, we drilled three infill wells in the
19 Basin-Dakota at the very end of 1991 and they
20 actually came on line, I think, in January of
21 92.

22 We have a number of other wells,
23 potential well locations in that same unit for
24 infill drilling. At this time we are in a bit of
25 a pinch. The parent wells in the blocks that we

1 infill-drilled, the parent wells already had some
2 significant overproduction against them, and,
3 when we drilled the infill wells because of the
4 lower allowables that we had, we rapidly accrued
5 a tremendous amount of overproduction, and we're
6 now bordering on the 12-times-overproduced limit,
7 you know, approximately a year, year and a half
8 after we started production.

9 We have, like I say, a number of other
10 infill drilling candidates that we've actually
11 requested funds to drill. Again, we still have
12 some worry about the allowables.

13 Q. How many proration areas will you
14 have? For the Basin-Dakota, if we were to give
15 you the allowable and you say the break-even is
16 650, how many would you have above that 650?

17 A. Where the actual deliverability is
18 higher than 650?

19 Q. Right.

20 A. Two of the three infill wells that we
21 drilled, again at the end of 91, the infill wells
22 themselves, without even considering the parent
23 wells, the infill wells themselves came on line
24 at 1.2 million a day to 1.5 million a day.
25 They're both producing at about 700 Mcf a day

1 currently.

2 Each of the parent wells in those
3 respective GPUs produce about 300 Mcf a day, so
4 it's fair to say that our deliverability in those
5 GPUs is in the one-million-a-day range. So we're
6 certainly not asking to not be prorated.

7 Q. And I have the same question on your
8 Exhibit 5 for the Blanco-Mesaverde pool. How
9 many do you have above the 800?

10 A. Currently none. We currently have no
11 wells on compression so, in fact, the vast
12 majority of our wells are, indeed, declared
13 marginal wells. We anticipate that production
14 will at least double if we were to put these
15 wells on compression, so this throws us into the
16 nonmarginal class, and this is where we get into
17 trouble where we kind of get double curtailed,
18 once on the deliverability calculation and once
19 on the nonmarginal pool allowable itself.

20 Q. Are you saying this higher allowable is
21 needed to do the compression project or are you
22 going to do this with or without? Would it make
23 the economics better for doing--

24 A. Without the compression project--excuse
25 me, without a high adjustment, it's going to make

1 it very difficult to economically justify the
2 project. The nature--I can't really talk too
3 much about our negotiations, but the nature of
4 the agreement that we're working towards is that
5 we have to provide some volume commitments in
6 order to get the compression. It will make it
7 very hard to meet those volume commitments if
8 we're being drastically curtailed.

9 COMMISSIONER CARLSON: That's all I
10 have.

11 CHAIRMAN LEMAY: Commissioner Weiss?

12 COMMISSIONER WEISS: I have one
13 question.

14 EXAMINATION

15 BY COMMISSIONER WEISS:

16 Q. On your Basin-Dakota infill wells, what
17 has been the net effect on offset operators'
18 reserves?

19 A. Well, Phillips Petroleum Company
20 operates very few drilling blocks on a lease
21 basis. We operate six federal units. For
22 example, the infill wells that we drilled in the
23 Basin-Dakota, they were in the 31-6 unit, which
24 were at least two miles away from the unit
25 boundary. We're really not affecting anybody out

1 of our own scope of operations, and all the wells
2 within that unit boundary are, essentially, the
3 same ownership.

4 Q. Was that reflected in your exhibits?

5 A. No, sir.

6 COMMISSIONER WEISS: Thank you. That
7 was the only question I had.

8 CHAIRMAN LEMAY: Just one question.

9 EXAMINATION

10 BY CHAIRMAN LEMAY:

11 Q. Your El Paso price, are you selling the
12 gas to El Paso?

13 A. No, that's just a posted price. We're
14 selling to a whole variety of people, and I'm not
15 really ever involved in that. This is just a
16 posted price that you can use as a yardstick to
17 determine what the general condition of the
18 market is in any one month.

19 Q. I didn't know there was such a thing as
20 an El Paso posted price.

21 A. Well, it's the posted price going to
22 into the El Paso system at the Blanco hub.

23 Q. The posted price is the value of the
24 gas, not necessarily transmission cost?

25 A. Right. Gas price.

1 Q. That's one I have to look at.

2 A. Yeah. It's just a common delivery
3 point.

4 COMMISSIONER CARLSON: But that's as
5 published by El Paso, or FERC, or Gas Daily.

6 THE WITNESS: It's probably Gas Daily.

7 COMMISSIONER CARLSON: Okay. Thank
8 you. That's what I was trying to get at. I
9 didn't know El Paso was the author of a price at
10 their Blanco hub.

11 THE WITNESS: No, it was probably Gas
12 Daily.

13 CHAIRMAN LEMAY: Okay. Additional
14 questions of the witness? If not, he may be
15 excused.

16 Let's take a 15-minute break and then
17 we'll come back.

18 [A recess was taken.]

19 CHAIRMAN LEMAY: We shall continue.
20 Mr. Kellahin, does that complete your testimony?

21 MR. KELLAHIN: Yes, sir.

22 CHAIRMAN LEMAY: Thank you. Mr. Carr.

23 MR. CARR: May it please the
24 Commission, at this time we'll call Bill Hawkins
25 to present testimony for Amoco Production

1 Company.

2 J. W. "BILL" HAWKINS

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

5 EXAMINATION

6 BY MR. CARR:

7 Q. Will you state your name for the
8 record, please.

9 A. James William Bill Hawkins.

10 Q. Where do you reside?

11 A. In Denver, Colorado.

12 Q. By whom are you employed and in what
13 capacity?

14 A. Amoco Production Company, senior
15 petroleum engineering associate, responsible for
16 regulatory affairs in the Southern Rockies
17 Business Unit.

18 Q. Mr. Hawkins, have you previously
19 testified before the New Mexico Oil Conservation
20 Commission?

21 A. Yes, I have.

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

25 A. Yes, they were.

1 Q. In fact, you have testified for Amoco
2 in previous allowable hearings, have you not?

3 A. That's correct.

4 Q. You are familiar with how allowables
5 are set for the prorated pools in Northwestern
6 New Mexico?

7 A. Yes, I am.

8 Q. Have you reviewed the preliminary
9 allowables proposed by the Oil Conservation
10 Division for the period running from April 1993
11 through September of this year?

12 A. Yes, I have.

13 Q. Are you prepared to make
14 recommendations to the Commission concerning
15 adjustments to these preliminary allowable
16 figures?

17 A. Yes.

18 MR. CARR: Are the witness'
19 qualifications acceptable.

20 CHAIRMAN LEMAY: They're acceptable.

21 Q. Mr. Hawkins, will you refer to what has
22 been marked for identification as Amoco Exhibit
23 No. 1 and review this exhibit for the Commission?

24 A. Yes. We prepared one exhibit for the
25 hearing today, and this exhibit is just a

1 tabulation of recommended allowable for each of
2 the four pools in the northwestern portion of the
3 state.

4 The first line that we'll look at shows
5 the names of each of the four pools, and right
6 below that is the NMOCD preliminary estimate.
7 This is the estimate that was published in our
8 Notice of Hearing as the production from the
9 equivalent period in 1992. That is their
10 preliminary estimate for the April through
11 September 93 period.

12 I would like to call your attention,
13 say, for instance, to the Basin-Dakota pool. The
14 NMOCD preliminary estimate was set at about 8.2
15 Bcf per month.

16 Q. Do you believe this accurately reflects
17 the sustained producing rate for each of these
18 pools, the figures in this column?

19 A. No, I do not. I think what our
20 recommended allowable is, if you take the
21 Amoco-recommended adjustments and come up with
22 the bottom line, the monthly pool allowable, you
23 then would come up with an estimate that's much
24 closer to the current production from the pools,
25 and what we would recommend are what we believe

1 to be a sustainable production over the next
2 six-month period.

3 Q. Go to the column marked Amoco
4 recommended adjustment and explain how you
5 derived those recommendations.

6 A. We reviewed the pool production from
7 the most recent monthly statistical books
8 published by the NMOCDC. At the time, the October
9 month was the latest that we had, and so we chose
10 an adjustment that would put us in line with the
11 October production.

12 As it turns out, that October
13 production is very close to the six-month
14 averages that we're looking at and that have been
15 testified to by the other parties.

16 Q. The bottom line shows when you make the
17 adjustment what Amoco recommends the monthly pool
18 allowable to be?

19 A. That's correct.

20 Q. Do you have an opinion as to whether or
21 not the operators in these pools could sell the
22 production that you have indicated in that column
23 for each of the pools?

24 A. Yes, I do. Since this is the estimate
25 of current production from the pool and all of

1 us, you know, have the market right now to sell
2 that gas, we believe that that market will be
3 sustained through the next six-month period, and
4 we will be able to market all of the gas shown on
5 our estimate of monthly pool allowable.

6 Q. You were present for the presentation
7 made this morning by Meridian, were you not?

8 A. Yes, I was.

9 Q. How do the figures in the monthly pool
10 allowable column compare to the average or
11 estimated production rates for the last six
12 months that were presented by Meridian?

13 A. They're very close. For instance, in
14 Meridian's Exhibit No. 3, they show, for the
15 six-month period from, it appears to be, August,
16 roughly, 92 through January of 93, an average of
17 9.8 Bcf per month for the Basin-Dakota pool, and
18 our estimate of monthly pool allowable is about
19 9.7 Bcf per month, so we're very close there.

20 On Meridian's Exhibit No. 4 for the
21 Blanco-Mesaverde pool, they show an average
22 production of 17.2 Bcf per month for the last six
23 months. With our recommended adjustment, we'd
24 set the pool at about 17.2 Bcf per month.

25 I think on their Exhibit No. 7, they

1 show an average production for the Blanco P.C.
2 South at about 1.4 Bcf per month for the last six
3 months, and we're recommending an adjustment that
4 would set the pool allowable at about 1.4 Bcf per
5 month.

6 So, we feel like these estimates that
7 we've made are very similar to the information
8 that Meridian has looked at, and although
9 slightly different from their recommendation,
10 it's very much in line with the current
11 production in the pool.

12 Q. In your opinion, if these recommended
13 adjustments are adopted, would any disturbance in
14 the over, underproduced status of wells in the
15 pool be created?

16 A. No, I don't think so.

17 Q. Do you recommend to the Oil
18 Conservation Commission that the adjustments
19 indicated on Amoco Exhibit No. 1, in fact, be
20 adopted?

21 A. Yes.

22 Q. Do you have anything further to add to
23 your testimony?

24 A. No, I don't.

25 Q. Did you prepare Exhibit No. 1?

1 A. Yes, I did.

2 MR. CARR: At this time, we would offer
3 Exhibit No. 1.

4 CHAIRMAN LEMAY: Without objection,
5 Exhibit No. 1 will be admitted into the record.

6 MR. CARR: That concludes my
7 examination of Mr. Hawkins.

8 CHAIRMAN LEMAY: Questions of Mr.
9 Hawkins? Mr. Kellahin?

10 CHAIRMAN LEMAY:

11 EXAMINATION

12 BY MR. KELLAHIN:

13 Q. Mr. Hawkins, on the Blanco-Mesaverde,
14 the highest level of adjustment thus far proposed
15 is Meridian's adjustment of 3 Bcf. Would Amoco
16 have any objection if the Commission adopted a 3
17 Bcf adjustment for the Blanco-Mesaverde?

18 A. No, we would not. It's very similar to
19 what we're recommending.

20 Q. When you look at the Basin-Dakota, the
21 highest adjustment recommended thus far is
22 Phillips' adjustment of 2.6 Bcf. Would Amoco
23 have any objection if the Commission adopted
24 Phillips' proposed adjustment of 2.6 Bcf for the
25 Basin-Dakota?

1 A. Well, I think that is quite a bit
2 higher adjustment than what we're recommending.
3 I think it's difficult at this point to foresee
4 that we're going to have that much increased
5 production out of the pool over the next six
6 months, but I think probably a number closer to,
7 say, Meridian's, would be more in line with our
8 recommendation.

9 MR. KELLAHIN: Thank you.

10 CHAIRMAN LEMAY: Additional questions
11 of the witness?

12 COMMISSIONER WEISS: I have no
13 questions.

14 CHAIRMAN LEMAY: Thank you, Mr.
15 Hawkins. You may be excused.

16 Anything else in the Northwest? Do we
17 have any--

18 MR. CARR: May it please the
19 Commission, I think there's a representative from
20 Union Oil here that would like to make a
21 statement at this time, before we go on to the
22 Southeast.

23 CHAIRMAN LEMAY: Yes, we would like to
24 finish up with the Northwest, and at this time we
25 would be happy to accept the statement from Union

1 Oil.

2 MR. VAN HORN: Thank you. My name is
3 Craig Van Horn and I'm a field superintendent
4 with Unocal in Farmington, New Mexico.

5 Unocal's position is that we support
6 the testimony and recommendation of Phillips for
7 a 2.6 Bcf administrative adjustment in the
8 Basin-Dakota. Unocal, like others, is currently
9 involved in an infill drilling program in the
10 Dakota. This program is to recover reserves that
11 would otherwise not be produced without these new
12 wells.

13 Excessive curtailment of these wells
14 make the economics of this program, and infill
15 drilling programs like this, unfavorable,
16 therefore leaving unrecovered reserves in the
17 ground.

18 A 2.6 Bcf adjustment allows Unocal to
19 produce and market 99 percent of our production
20 capability from the nonmarginal proration units
21 in the Basin-Dakota. At a very minimum, Unocal
22 would like to see a 2 Bcf adjustment to maintain
23 allowables at the current production rates from
24 the pool.

25 At the 2 Bcf adjustment, we can produce

1 97 percent of our nonmarginal capability,
2 representing a loss of three percent of our
3 deliverable gas. This three percent for Unocal
4 equates to almost 330 million cubic feet over the
5 next two years.

6 Unocal also supports Meridian's
7 testimony on the Mesaverde and South Blanco P.C.
8 in their request of 3 Bcf and 150 million cubic
9 feet adjustments respectively. This maintains
10 allowables roughly equivalent to the current
11 production rates from these wells.

12 Unocal, like Phillips, is also
13 currently involved in a project for central
14 gathering and compression in the Mesaverde and
15 South Blanco P.C. This project will also result
16 in the recovery of unrecoverable reserves.

17 Economics for our project, like
18 Phillips said, are very dependent on the amount
19 of prorationing or the amount the wells are
20 curtailed.

21 In summary, Unocal recommends a 2.6 Bcf
22 per month administrative adjustment in the
23 Basin-Dakota, 3 Bcf a month in the Mesaverde, and
24 150 million cubic feet in the South Blanco P.C.
25 Thank you.

1 CHAIRMAN LEMAY: Thank you, Mr. Van
2 Horn. Additional statements that pertain to the
3 Northwest?

4 Okay, then, we'll move on to the
5 southeast. Maybe we can get a pool or two in
6 before lunch.

7 [Discussion off the record.]

8 CHAIRMAN LEMAY: We shall resume. Mr.
9 Stovall?

10 MR. STOVALL: Mr. Chairman, we've
11 conferred. There are actually, in the Southeast,
12 there are only three pools in which testimony is
13 going to be presented; the Blinebry, the Indian
14 Basin-Upper Penn, and the Tubb.

15 In conferring with counsel for the
16 parties, they feel that we'll do the Blinebry
17 first. I think there's one party with one
18 witness. We'll do the Tubb next, again one party
19 with one witness, and we will save the best for
20 last and do the Indian Basin-Upper Penn with, I
21 believe, three parties and several witnesses.

22 CHAIRMAN LEMAY: We might get two of
23 them before lunch, and we'll save the other ones
24 until after lunch.

25 We'll start with what's been

1 characterized as one of the easy ones, Mr.
2 Kellahin.

3 MR. KELLAHIN: Thank you, Mr.
4 Chairman. Mr. Chairman, I have passed out
5 Marathon Exhibits 1 through 6 for the Blinebry
6 gas pool. As Exhibit 7, just to keep some order
7 to it, Exhibit 7 is a tabulation, as we did in
8 Northwest, of the prior spreadsheets, starting
9 with the April through September of 91 Commission
10 Order setting allowables in Southeastern New
11 Mexico. It goes through each of the prior
12 schedules the Commission has adopted and it ends
13 with the last page being the proposed schedule as
14 we have it today, and that is here.

15 **CRAIG KENT**

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

18 EXAMINATION

19 BY MR. KELLAHIN:

20 Q. Mr. Kent, for the record, would you
21 please state your name and occupation?

22 A. My name is Craig Kent, and I'm a
23 reservoir engineer with Marathon Oil Company in
24 Midland, Texas.

25 Q. On prior occasions have you testified

1 as an expert witness before the Oil Conservation
2 Division and Commission?

3 A. Yes, I have.

4 Q. And pursuant to your employment, have
5 you, as an employee of Marathon, made a study of
6 Marathon's position concerning proposed
7 allowables in the Blinebry gas pool?

8 A. Yes, I have.

9 Q. Based upon that study, do you have
10 recommendations to the Commission?

11 A. Yes, I do.

12 MR. KELLAHIN: We tender Mr. Kent as an
13 expert witness.

14 CHAIRMAN LEMAY: His qualifications are
15 acceptable.

16 Q. Mr. Kent, before we talk about the
17 exhibits and the displays, give us an idea of
18 what your ultimate conclusion is with regards to
19 an adjustment, if any, to the preliminary
20 schedule presented by Mr. Van Ryan earlier this
21 morning concerning the Blinebry gas pool.

22 A. Marathon is seeking an adjustment which
23 would bring the F1 factor for the Blinebry gas
24 pool to a value of 38,000 Mcf per month, which is
25 a continuation of the allowable that's been set

1 for this pool for the prior three periods.

2 Q. Let's turn now, sir, to Exhibit No. 1.
3 Would you identify and describe that for us?

4 A. Exhibit No. 1 is a plot of gas
5 production for the Blinebry gas pool. This is
6 shown by the blue bars, along with a red dashed
7 line, which represents the pool allowable for the
8 respective proration periods.

9 Q. What does it show you?

10 A. It shows me first that the production
11 from the pool, at least through 92, did not see
12 any type of seasonal cycles, and also that the
13 pool was close to producing the total pool
14 allowable in the summer of 1992.

15 Q. Have you examined or do you have an
16 opinion with regards to those months in which the
17 production falls below the allowable?

18 A. No, I don't.

19 Q. Okay. On average, though, it appears
20 that the allowable has been produced by the pool?

21 A. It was either at or slightly below the
22 allowable for the period.

23 Q. Let's turn now to Exhibit No. 2.
24 Identify and describe that for us.

25 A. Exhibit No. 2, entitled "Blinebry Gas

1 Pool Allowables," is a summary of the preliminary
2 calculation issued by the Oil Conservation
3 Division, as well as a calculation using
4 Marathon's proposed adjustment.

5 Q. The F1 factor, then, is in the last
6 column, last line of the display, the 38,000?

7 A. That's correct.

8 Q. And you come back through the
9 calculation and then find the necessary
10 adjustment up in the adjustment schedule in order
11 to achieve that F1 factor?

12 A. That's correct.

13 Q. Have you contacted the other operators
14 in the pool and made a proposal to them with
15 regards to the allowable request that you're
16 presenting to the Commission today?

17 A. Yes, we have.

18 Q. Let's turn to Exhibit No. 3 and have
19 you identify that.

20 A. Exhibit No. 3 was a letter sent to all
21 operators in the Blinebry gas pool, advising them
22 of Marathon's intention to propose an adjustment
23 to bring the F1 factor up to a value of 38,000
24 Mcf per month.

25 Q. Have you received any objection from

1 any of the operators in the pool to your
2 allowable request?

3 A. No, I haven't.

4 Q. Let's look at the data you have with
5 regards to the nonmarginal wells that are in the
6 pool, Exhibits 4, 5 and 6. What do those
7 represent?

8 A. Exhibits 4, 5 and 6 represent
9 production curves on three wells in the pool that
10 are capable of making rates in excess of our
11 proposed 38,000 Mcf per month.

12 Q. Why have you selected these three?

13 A. These three are nonmarginal wells in
14 the pool and are the only three that are capable
15 of producing in excess of that value.

16 Q. Let's turn to Exhibit 4. Identify and
17 describe this for us.

18 A. Exhibit 4 is a production plot of the
19 Marathon Oil Company Lou Worthan No. 9. You can
20 see the red line on the graph represents the
21 allowable. The purple line represents the
22 monthly production from the well, and the dotted
23 yellow line represents a running total of the
24 overproduction for the well.

25 Q. Let's go to Exhibit No. 5, and identify

1 and describe that one for us?

2 A. Exhibit No. 5 is a similar plot on the
3 Marathon Oil Company-operated Lou Worthan No. 12,
4 again with the allowable shown as the red line,
5 sales shown in purple.

6 MR. STOVALL: If we could take a
7 minute, Mr. Chairman, the court reporter needs a
8 quick break.

9 [Discussion off the record.]

10 Q. (BY MR. KELLAHIN) Please continue, Mr.
11 Kent.

12 A. As I said, Exhibit 5 is a production
13 plot on the Marathon Oil Company Lou Worthan No.
14 12, with the allowable shown as the red line,
15 sales by the purple line, and a running total of
16 overproduction by the dotted yellow line.

17 Q. All right. Identify and describe for
18 us Exhibit 6.

19 A. Exhibit 6 is a similar plot on the John
20 Hendrix-operated L. E. Hinton No. 1, with the
21 same detail on the plot.

22 Q. Give us your comments when you look at
23 the various allowables set for past periods and
24 that allowable level in relation to the
25 production level. What have you observed?

1 A. I've observed that over the past three
2 or so periods that the total pool allowable has,
3 after adjustments, has decreased, while total
4 pool production has actually increased.

5 Q. Is the proposed allowable, without an
6 adjustment that was introduced by the Division,
7 is that representative of the volume of gas
8 necessary to produce and meet market demand for
9 this pool?

10 A. It is slightly below the amount needed
11 to meet market demand for this pool.

12 Q. If the adjustment is made so the F1
13 factor is 38,000, is that a number that you're
14 proposing as being adequate to meet market
15 demand?

16 A. Yes, it is.

17 Q. And that is consistent, then, with the
18 F1 factor that has been utilized in past orders
19 for production from this pool?

20 A. Yes, it is.

21 MR. KELLAHIN: That concludes my
22 examination of Mr. Kent. We move the
23 introduction of Exhibits 1 through 7.

24 CHAIRMAN LEMAY: Without objection,
25 Exhibits 1 through 7 will be admitted into the

1 record.

2 Questions of Mr. Kent?

3 COMMISSIONER CARLSON: Yes.

4 EXAMINATION

5 BY COMMISSIONER CARLSON:

6 Q. Mr. Kent, you sent the letter of
7 February 16th to all the operators. How many
8 operators is that?

9 A. Off the top of my head, I don't know
10 how many operators there are. There are several.

11 Q. "Seven" or "several"?

12 A. Several.

13 Q. You say nobody objects, but you ask for
14 their support. Has anybody supported?

15 A. I haven't received any indication.

16 Q. So you haven't heard from any of them?

17 A. No.

18 Q. What percent of the production from the
19 Blinebry pool does Marathon produce?

20 A. Marathon operates approximately 20 to
21 25 percent of the production from the Blinebry
22 pool.

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

25 CHAIRMAN LEMAY: Commissioner Weiss?

1 COMMISSIONER WEISS: I have no
2 questions.

3 EXAMINATION

4 BY CHAIRMAN LEMAY:

5 Q. Do you happen to know if there's any
6 curtailed production based on orthodox locations
7 within that field, or reduced allowables based on
8 Commission orders for--

9 A. There are several wells that have
10 acreage factors less than one, but whether that's
11 due to nonstandard proration units or nonstandard
12 locations, I don't know.

13 Q. In general, you're not familiar with
14 any curtailed allowables based on an orthodox
15 location or a wide variety of spacing unit sizes
16 in there?

17 A. In my review, I did not see, even with
18 wells that had acreage factors less than one,
19 wells that were capable of producing in excess of
20 the F1 times the acreage factor on a monthly
21 basis. So, in other words, in my study, no,
22 there wasn't.

23 Q. Are you the largest operator in the
24 field with 20 or 25 percent of the production?

25 A. Off the top of my head, I can't tell

1 you that. I don't know.

2 CHAIRMAN LEMAY: Any other questions of
3 the witness? If not, he may be excused.

4 Mr. Kellahin?

5 MR. KELLAHIN: Mr. Chairman, I would
6 like to call Mr. John Gilbert. Mr. Gilbert has
7 previously testified before the Commission as a
8 gas marketing expert, and I'll ask him his
9 comments on the Blinebry.

10 JOHN P. GILBERT

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

13 EXAMINATION

14 BY MR. KELLAHIN:

15 Q. Mr. Gilbert, would you please state
16 your name and occupation?

17 A. My name is John P. Gilbert. I'm a
18 natural gas marketing representative for Marathon
19 Oil Company.

20 Q. Where do you reside, sir?

21 A. Midland, Texas.

22 Q. On prior occasions have you testified
23 as a marketing gas expert with regards to the
24 Blinebry gas pool?

25 A. Yes, sir, I have.

1 Q. Have you continued to market gas out of
2 that pool for your company?

3 A. Yes, sir.

4 MR. KELLAHIN: We tender Mr. Gilbert as
5 a gas marketing expert.

6 CHAIRMAN LEMAY: His qualifications are
7 acceptable.

8 Q. Give us your summary of market
9 conditions and market demand for gas produced out
10 of the Blinbry gas pool, Mr. Gilbert.

11 A. The marketing opportunities have been
12 abundant out there. In the last two to three
13 months alone, for the first time ever, we're
14 receiving calls from large LDCs in the west, also
15 in the north, as this gas primarily is
16 transported on Northern, who are short of supply
17 and need the gas. The demand has been greater
18 than the supply.

19 Q. Do you see any forecast of seasonal
20 cycling or seasonal fluctuations in market demand
21 for production from this pool?

22 A. No, sir. We're certainly seeing a
23 flattening of the line of this seasonal demand.

24 Q. Do you continue to have the ability to
25 market gas if this allowable level adjustment is

1 approved by the Commission?

2 A. Yes, sir.

3 MR. KELLAHIN: That concludes my
4 examination of Mr. Gilbert.

5 CHAIRMAN LEMAY: Thank you. Questions
6 of Mr. Gilbert?

7 I have none. Thank you, Mr. Gilbert.
8 Keep marketing that gas. You may be excused.

9 MR. KELLAHIN: That completes my
10 presentation on the Blinbry.

11 CHAIRMAN LEMAY: Thank you, Mr.
12 Kellahin. Let's go to the Tubb.

13 Mr. Bruce?

14 MR. BRUCE: Thank you, Mr. Chairman,
15 I'm here on behalf Exxon Corporation today.

16 WILLIAM THOMAS DUNCAN, JR.

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

19 EXAMINATION

20 BY MR. BRUCE:

21 Q. Mr. Duncan, would you please state your
22 full name and city of residence for the
23 Commission?

24 A. My name is William Thomas Duncan, Jr.,
25 and I reside in Midland, Texas.

1 Q. What is your occupation and who are you
2 employed by?

3 A. I'm a staff engineer with Exxon
4 Corporation in our regulatory compliance group.

5 Q. Have you previously qualified before
6 the Oil Conservation Division as a petroleum
7 engineer?

8 A. Yes, I have.

9 Q. Have you previously testified before
10 the Division?

11 A. Yes, I have.

12 Q. Do you have some recommendations to
13 make to the Commission regarding the Tubb
14 allowable?

15 A. Yes, I do.

16 MR. BRUCE: Mr. Chairman, I would
17 tender Mr. Duncan as an expert petroleum
18 engineer.

19 CHAIRMAN LEMAY: His qualifications are
20 acceptable.

21 Q. Mr. Duncan, what is Exxon's position at
22 this hearing?

23 A. We seek an increase in the allowable
24 for the Tubb prorated gas pool slightly in
25 addition to the proposed allowable that the

1 Commission has offered.

2 Q. Okay. If you would refer to your
3 Exhibit 1, what is the proposed monthly Tubb
4 allowable as proposed by the Division?

5 A. Based upon the 1992 production for a
6 like period, the NMOCDC has proposed pool monthly
7 allowables of slightly in excess of 288 million
8 cubic feet per month.

9 Q. That was based on last year's actual
10 figure?

11 A. Yes, it was.

12 Q. How did the actual April to September
13 1992 production compare to the allowable for that
14 period?

15 A. The actual production was slightly over
16 52 percent higher than the allowable for that
17 like period, that same period, so production was
18 actually 152 percent of the allowables for that
19 period last year.

20 Q. So the allowable, the actual or the set
21 allowable for that period was somewhere around
22 190,000 per month, is that correct?

23 A. Yes, it was, 199 million.

24 Q. Does Exxon have any information as to
25 market demand for production from its nonmarginal

1 wells in the Tubb pool?

2 A. Yes. Our nonmarginal wells are
3 dedicated to the Sid Richardson Gasoline Company.
4 That's not the complete name.

5 Q. Carbon and Gasoline Company?

6 A. Yes. And Sid Richardson has indicated
7 to us that they have a marked for significantly
8 more gas than we can even produce, if we had the
9 allowable to produce it.

10 Q. What figure did they say they could use
11 in addition to what you're producing?

12 A. When we asked if they could use
13 additional production in addition to what we've
14 been able to provide in the past, they said they
15 would like to see another 40 million cubic feet
16 per day, and we can only provide somewhere less
17 than one million cubic feet per day.

18 Q. What is your recommended adjustment for
19 the Tubb pool?

20 A. We recommend that the additional
21 capacity of the wells in the Tubb pool be added
22 to the Tubb proposed monthly allowable. That
23 would be an additional six million cubic feet per
24 month average, over the six-month period.

25 Q. How many nonmarginal wells does Exxon

1 have in this pool?

2 A. Exxon operates three nonmarginal
3 wells. There are another two wells that are
4 nonmarginal.

5 Q. Are Exxon's wells all dedicated to the
6 standard 160-acre units?

7 A. Yes, they are.

8 Q. Are any of Exxon's wells what you would
9 call barn-burners?

10 A. Well, they're ours, but they're not
11 barn-burners, no.

12 Q. Could your Exxon proposal benefit other
13 operators in this pool?

14 A. Yes, it could, the other operators of
15 other nonmarginal wells.

16 Q. Do you have anything further in this
17 matter, Mr. Duncan?

18 A. No, I don't.

19 Q. Was Exhibit 1 prepared by you or under
20 your direction?

21 A. Yes, it was.

22 MR. BRUCE: Mr. Chairman, at this time
23 I would move the admission of Exxon's Exhibit No.
24 1.

25 CHAIRMAN LEMAY: Without objection,

1 Exhibit 1 is in the record.

2 MR. BRUCE: I have no further questions
3 at this time.

4 CHAIRMAN LEMAY: Questions of the
5 witness?

6 MR. STOVALL: I have some, Mr.
7 Chairman, solely for the purpose of making sure I
8 understand the request that's being made

9 EXAMINATION

10 BY MR. STOVALL:

11 Q. Using your Exhibit 1--and do you have a
12 copy of the Commission Exhibit A?

13 A. Yes, I do.

14 Q. Division Exhibit A, as you pointed out,
15 is 288 million, and your Exhibit 1 talks about a
16 5,900 Mcf or 5.9 million cubic feet. Is that the
17 number you would suggest be entered on Line 3, or
18 is that a per well, or what is that number?

19 A. That is the number that will be entered
20 as a positive value on Line 3.

21 Q. So, in other words, the entire pool
22 allowable on Line 4 would then be about 293, 294,
23 is that correct?

24 A. That's correct. It would be an
25 increase of about two percent.

1 MR. STOVALL: Okay. That's all I
2 wanted to know.

3 CHAIRMAN LEMAY: Thank you, Mr.
4 Stovall. Additional questions of the witness?
5 Commissioner Carlson?

6 EXAMINATION

7 BY COMMISSIONER CARLSON:

8 Q. By additional capacity, which would be
9 limited, if we add that on there, then they would
10 be able to produce their total deliverability, is
11 that correct?

12 A. They would be able to produce as much
13 as they've indicated they could produce over the
14 past year. What I did is, I took the highest
15 individual month's production from each of those
16 wells that were nonmarginal.

17 Q. Exxon operates three of those wells?

18 A. That's correct.

19 Q. Who are the other two operators?

20 A. Marathon and Texaco, I believe. Let me
21 refer to my notes. Excuse me, Exxon operates two
22 of those wells, Texaco operates one, John Hendrix
23 operates another, and Marathon operates a third.
24 I apologize.

25 Q. Have you talked to those three

1 operators?

2 A. No, I have not.

3 COMMISSIONER CARLSON: No other
4 questions.

5 CHAIRMAN LEMAY: Commissioner Weiss?

6 EXAMINATION

7 BY COMMISSIONER WEISS:

8 Q. How many wells are in the Tubb field?

9 A. I don't know off hand. I have a
10 proration schedule and could count them up pretty
11 quickly. There are a total of 64-1/2 acreage
12 factors on the October to March proration
13 schedule.

14 COMMISSIONER WEISS: That's 64 wells.
15 Thank you. That's the only question.

16 EXAMINATION

17 BY CHAIRMAN LEMAY:

18 Q. Are you familiar with any nonstandard
19 units or any unorthodox locations in this field?

20 A. I don't know which ones specifically
21 you're referring to.

22 Q. Just in general, if it's a common
23 practice to have the standard proration unit
24 size, or if there's a lot of variations in
25 allowables adjusted according to those

1 variations?

2 A. Well, in looking down the proration
3 schedule, it does look like most of the wells
4 have an acreage factor of one, so they're
5 probably the standard size. I've not made a
6 study of whether or not those locations are
7 orthodox or not.

8 Q. Do you know if those locations in the
9 nonmarginal wells are standard or unorthodox?

10 A. I believe that those are standard. I
11 have not checked the footages, but on a map they
12 look like they're approximately 660 or greater to
13 the lease line, which would be standard.

14 CHAIRMAN LEMAY: Thank you. Any other
15 questions of the witness? If not, he may be
16 excused.

17 Let's take a break and come back at
18 1:00, and we'll do the Indian Basin.

19 [The noon recess was taken.]

20 CHAIRMAN LEMAY: Okay. We'll
21 continue. We'll start with some Commission dates
22 here that we've all agreed upon, those of us up
23 here, anyway.

24 The March 11th date, I don't think we
25 have any cases for that, so March will be free.

1 April 29th, May 27th, June 24th and July 22nd,
2 those will all be the Commission hearing days for
3 the next four months, and we'll look toward the
4 end of the year somewhere in the spring.

5 Okay. We shall continue with the
6 Indian Basin field. Mr. Kellahin.

7 MR. KELLAHIN: Thank you, Mr.
8 Chairman. I would like to call at this time Mr.
9 Craig Kent.

10 CRAIG KENT

11 Having been previously duly sworn upon his oath,
12 was examined and testified further as follows:

13 EXAMINATION

14 BY MR. KELLAHIN:

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

17 A. My name is Craig Kent, and I'm a
18 reservoir engineer with Marathon Oil Company in
19 Midland, Texas.

20 Q. Mr. Kent, on prior occasions have you
21 testified before the Oil Conservation Division as
22 a reservoir engineer specifically with regards to
23 the Indian Basin-Upper Pennsylvanian gas pool?

24 A. Yes, I have.

25 Q. In addition, have you been assigned

1 responsibility for analyzing the reservoir and
2 your wells to determine a recommendation for an
3 allowable for the proration period that's under
4 consideration here?

5 A. Yes, I have.

6 Q. Pursuant to that direction by your
7 company, have you prepared certain exhibits and
8 reached certain conclusions about the requested
9 allowable adjustment you're seeking for your
10 company?

11 A. Yes, I have.

12 MR. KELLAHIN: We tender Mr. Kent as an
13 expert witness.

14 CHAIRMAN LEMAY: His qualifications are
15 acceptable.

16 Q. Mr. Kent, before we start with the
17 presentation of the exhibits, give me a summary,
18 sir, of what your recommendation is for an
19 adjustment in the allowable for the Indian
20 Basin-Upper Penn gas pool?

21 A. Marathon is seeking an adjustment of
22 166,234 Mcf per month to the preliminary
23 allowable proposed by the OCD.

24 Q. When you take that adjustment and
25 factor or calculate the F1 nonmarginal component,

1 what does that equate to in Mcf of gas per month?

2 A. That equates to an F1 factor of 196,500
3 Mcf per month.

4 Q. If you divide that number by 30.4 to
5 get to a maximum daily gas producing rate, what
6 is that number?

7 A. It's just under 6.5 million cubic feet
8 per day.

9 Q. How does that requested level of
10 allowable compare to the allowable level you're
11 currently using in that pool for this winter
12 period that we're in now?

13 A. Essentially, the two figures are
14 identical.

15 Q. Let's start now with Exhibit No. 1.
16 Would you identify and describe that for us?

17 A. Exhibit No. 1 is a plat of the area
18 surrounding the Indian Basin-Upper Penn pool.
19 The pool is spaced on 640 acres. Each section is
20 color-coded indicating the operator of the well
21 in that section.

22 There are green boxes or boxes around
23 several wells in the plat area which indicate
24 wells that have been worked on since the
25 beginning of 1991, with the boxes in green

1 showing those wells that were worked on in 91,
2 boxes in red showing those wells that have been
3 worked on in 92 and 93.

4 Q. Have you prepared a display that shows
5 the additional well capacity, if you will, that
6 has been added to the pool since the last
7 allowable hearing?

8 A. Yes, I have.

9 Q. Let's turn to Exhibit No. 2. What
10 information have you placed on Exhibit No. 2?

11 A. Exhibit No. 2 is a well-by-well
12 breakdown of the work that's been done in the
13 Indian Basin field since the beginning of 1992.
14 The two operators that were active in 92 were
15 Oryx and Chevron.

16 Listed is the well station which is
17 just a way that we track these wells. For
18 instance, the first well, Station 217, the first
19 digit represents the township that the well is in
20 with the number 2, indicating Township 21 South,
21 Range 23 East; the number 3 representing Township
22 22 South, Range 23 East.

23 The second two digits of the station
24 number designate which section the well is in.

25 Also on this is a summary of the gas

1 rate prior to work being completed, as well as
2 the peak month of production following the work
3 that we saw.

4 Q. Last August of 92, when the Commission
5 had under consideration establishing allowables
6 for the pool, the work shown for Chevron on
7 additional capacity, with the exception of the
8 308 well, then, all those represent additional
9 work that they have undertaken since the last
10 hearing?

11 A. That's correct.

12 Q. Has the additional capacity added by
13 other operators to the pool been factored into
14 the 196,500 F1 factor at this point?

15 A. Yes, it has.

16 Q. What conclusions do you draw from
17 Exhibit No. 2?

18 A. Basically, the main conclusion here is
19 that we've been able to see that there was
20 considerable capacity that could be added in
21 several wells in the field just by doing remedial
22 work.

23 Q. The preliminary schedule that Mr. Van
24 Ryan introduced showed an F1 factor for the
25 Indian Basin-Upper Penn of just over 172,000. In

1 your opinion, is that representative of the
2 appropriate level for an allowable for this
3 summer period for this pool?

4 A. No, it's not. With the activity that
5 went on late last summer and into the winter, the
6 added capacity of those wells was not taken into
7 account in the calculation of the F1 factor.

8 Q. Have you made a study to determine how
9 the operators share the gas production out of the
10 pool, in terms of a percentage?

11 A. Yes, I have.

12 Q. Let's turn to Exhibit No. 3. Is this
13 also a tabulation you've made, Mr. Kent?

14 A. Yes, it is.

15 Q. Describe for us what you've done.

16 A. This is a tabulation of each company's
17 working interest share of produced gas. This
18 includes their working interest share in
19 operated, as well as nonoperated wells in the
20 pool.

21 For instance, looking at Marathon, from
22 April to September of 92, we held about a 26.8
23 percent working interest share of gross gas
24 sales, and we held about the same value in
25 October through December of 92.

1 Q. The preliminary schedule for Indian
2 Basin, the number of nonmarginal acreage factors.
3 6.92?

4 A. That's correct.

5 Q. How many nonmarginal wells make up the
6 nonmarginal acreage factor?

7 A. As I understand it, there are seven
8 nonmarginal wells in the total nonmarginal
9 acreage factor.

10 Q. There's one well, then, with less than
11 a full 640 spacing unit?

12 A. There's one well with less, and one
13 well with more.

14 Q. When we look at Exhibit No. 3, can you
15 identify for us, of those nonmarginal wells,
16 which operator has how many?

17 A. Based on discussions with the Division,
18 Marathon, in that 6.92, operates four wells, Oryx
19 operates two, Chevron operates one.

20 Q. If the Commission accepts the
21 continuation of an allowable that lets the
22 current F1 factor for the winter period stay in
23 place for this summer period, will there be
24 nonmarginal wells that will be curtailed?

25 A. There will be four wells that will have

1 capacity in excess of the 196,500.

2 Q. Let's turn now to Exhibit No. 4 and
3 have you identify and describe that display.

4 A. Exhibit No. 4 is a plot of monthly pool
5 production from the Indian Basin-Upper Penn
6 pool. Also shown on the plot, the dashed black
7 line shows the pool allowable for the respective
8 period, and the solid black line in the upper
9 right indicates what the pool allowable will be
10 with Marathon's proposed adjustment.

11 Q. Have the wells in the pool, the
12 nonmarginal wells in the pool, been able to
13 produce their nonmarginal allowables?

14 A. Yes, they have.

15 Q. What is the total status of the pool in
16 terms of pool allowable versus pool production?

17 A. You can see that from early 1992,
18 through 92 and projected into early 1993, the
19 pool has and will continue to produce in excess
20 of the pool allowable.

21 Q. If you look on your bar graph, Exhibit
22 No. 4, and count back four bars from the
23 right--and I think that is June of 93--there is a
24 dip. That bar graph is below the allowable for
25 that month?

1 A. That's correct.

2 Q. What happened?

3 A. We were planning to do a major
4 turn-around at the Indian Basin gas plant during
5 June, so we factored in a seven day shut-in of
6 the field into the production for June of 1993.

7 Q. How has the Commission handled the down
8 time of the plant that takes gas production from
9 the pool, in terms of adjusting the allowable?

10 A. As I understand it, there has been no
11 adjustment made.

12 Q. When we go backwards now and looking in
13 91, there are two other times where there is a
14 downward spike in your bar graph. Looking at the
15 one in December of 91, January of 92, what
16 occurred during that interval?

17 A. There were fires at the Indian Basin
18 gas plant which, essentially, had the field shut
19 in for several days in December and January.

20 Q. Going back to September of 91, that was
21 the last downward spike. What does that
22 represent?

23 A. That was, again, a plant turn around to
24 do maintenance work at the facility.

25 Q. The production, then, has been affected

1 by events other than market demand and in reduced
2 production for those months?

3 A. That's correct.

4 Q. Let's turn now to Exhibit No. 5, Mr.
5 Kent. Would you identify and describe that for
6 us?

7 A. Exhibit No. 5 is a calculation of the
8 F1 factor, showing both the preliminary schedule
9 issued by the OCD as well as a calculation of the
10 F1 factor utilizing Marathon's adjustment.

11 Q. When you look at the historic past
12 production, what has been that relationship
13 between actual production and the allowables
14 assigned for any given proration period?

15 A. Over the past few years, the actual
16 production has exceeded the pool allowable.

17 Q. What is your forecast for production
18 for this next proration period for pool
19 production?

20 A. The forecast is, on a daily rate the
21 pool should produce somewhere on the order of 3.8
22 Bcf. When taking into account the down time we
23 project in June, we would expect an average
24 monthly production of something on the order of
25 3.7 Bcf for the six-month period under

1 consideration.

2 Q. What is Marathon's plan with regards to
3 its use of the allowable to be assigned under
4 your proposal for the next period? Will you
5 produce your wells up to that allowable level?

6 A. Yes, we will.

7 Q. Have you contacted any other operators
8 in the pool to determine whether or not they will
9 utilize the allowable assigned if your
10 recommendation is accepted?

11 A. The operators I've talked to have
12 indicated that they will produce their wells to
13 the full extent.

14 Q. Who have you talked to?

15 A. I've spoken with both Oryx and Chevron.

16 Q. Let's turn now to Exhibit No. 6, Mr.
17 Kent. Would you identify and describe that.

18 A. Exhibit No. 6 is a letter that we sent
19 to all the operators in the Indian Basin-Upper
20 Penn pool, indicating our intention to ask for an
21 adjustment to the proration schedule to calculate
22 an F1 factor of 196,500.

23 Q. What, if any, response have you
24 received from the other operators concerning your
25 proposed allowable request?

1 A. We have received support from Oryx.

2 Q. Have you received any position from any
3 other company?

4 A. No, I haven't.

5 Q. As a reservoir engineer working in the
6 Indian Basin-Upper Pennsylvanian, are you
7 familiar with the reservoir characteristics of
8 that pool?

9 A. Yes, I am.

10 Q. In terms of determining whether or not
11 there is any potential impairment of correlative
12 rights with regards to the relationship of the
13 wells within the reservoir, have you made a study
14 of that issue?

15 A. Yes, I have.

16 Q. Let me turn your attention, Mr. Kent,
17 to Exhibit No. 7. Before are you describe it,
18 simply identify what you've displayed on that
19 exhibit.

20 A. Exhibit 7 is a structure map on the top
21 of the Indian Basin-Upper Penn pool, with various
22 structure contours as well as both original and
23 current gas/water contacts.

24 Q. To the best of your knowledge,
25 information and belief, is this an accurate

1 illustration or depiction of the reservoir, as
2 you and Marathon believe it to exist?

3 A. Yes, it is.

4 Q. Summarize for us, as a reservoir
5 engineer, what you see as the important reservoir
6 characteristics of the pool.

7 A. The important reservoir characteristics
8 are that there is somewhat of a structural
9 component to this pool, with the wells on the
10 eastern flank being downdip, the wells on the
11 west being updip. There has been some water
12 encroachment since the mid-60s from the east to
13 the west.

14 Q. You've identified an original gas/water
15 contact, and that's the farther east dotted line
16 through the display?

17 A. That's correct.

18 Q. Is there an estimate of what the
19 current gas/water contact in the reservoir is?

20 A. Yes, there is.

21 Q. How is that shown?

22 A. That's shown by the dotted line that's
23 just slightly to the left, running approximately
24 in the middle of the plat.

25 Q. How have you identified for us the

1 nonmarginal wells?

2 A. The nonmarginal wells make up the 6.92
3 acreage factor, and are denoted by green circles
4 surrounding the wells.

5 Q. Is there a structural advantage or a
6 structural component in the reservoir?

7 A. There is somewhat of a structural
8 component in the reservoir.

9 Q. Is there a relationship where the gas
10 wells higher on structure will have an advantage
11 over wells that are lower on structure?

12 A. Through time, as the gas/water contact
13 continues to move to the west, we expect that the
14 downdip wells will water out and the updip wells
15 will continue to produce.

16 Q. On the far left side of the display is
17 a type log. What does that illustrate?

18 A. The type log illustrates the various
19 formations in the Indian Basin-Upper Penn pool.
20 Of particular note, the Upper Penn interval,
21 shaded in red, shows basically the productive
22 interval for the Upper Penn pool.

23 Q. In relationship to structural position
24 in the reservoir, if the Commission approves your
25 allowable adjustment level, do you see any

1 impairment of correlative rights among the wells
2 because of structural position?

3 A. No, I don't.

4 Q. Let's turn now to look at the reservoir
5 thickness, if you will. There's a line of
6 cross-section on Exhibit 7. What does that
7 illustrate?

8 A. This line of cross-section connects
9 four wells in the Indian Basin-Upper Penn pool,
10 basically showing a structural component as well
11 as connecting wells that are some of the better
12 wells in the field.

13 Q. Why did you want to examine that issue?

14 A. We wanted to see, comparatively, how
15 net pay stacked up between wells.

16 Q. Let me turn you now to Exhibit No. 8.
17 What does that represent, Mr. Kent?

18 A. Exhibit No. 8 is a graphical depiction
19 of the net pay that we calculate in each of the
20 wells in the cross-section.

21 Q. Identify for us, going left to right,
22 the wells involved in the cross-section.

23 A. The farthestmost to the left is the
24 Bogle Flats Unit #3, located in Section 9, 22
25 South, 23 East. It's the furthest southwest well

1 on the cross-section line.

2 Q. Has that well been subject to any
3 recompletions or workovers?

4 A. Yes, it has.

5 Q. Okay. We go to the next one, and
6 what's that?

7 A. That's the Bogle Flats 2, located in
8 Section 4 of 22 South, 23 East.

9 Q. That's a nonmarginal well?

10 A. That's correct.

11 Q. The next well?

12 A. Is the Indian Basin "D" #1, which is
13 operated by Marathon. It's in Section 34 of 21
14 South, 23 East.

15 Q. And the last well on the cross-section?

16 A. Is Marathon's Indian Basin "C" #1,
17 located in Section 26 of 21 South, 23 East.

18 Q. What do you conclude about examining
19 the net pay in the reservoir that the operators
20 have an opportunity to produce the gas from?

21 A. There is a significant difference
22 between the net pay in the various wells in this
23 field.

24 Q. How is that related to the structure,
25 if at all?

1 A. The wells, at least on this
2 cross-section, the wells that are further updip
3 also have more pay.

4 Q. Turn now to Exhibit No. 9. Would you
5 identify and describe that for us?

6 A. Exhibit No. 9 is a log cross-section
7 which took two of the wells we were looking at on
8 Exhibit 8. I placed the sonic logs side by side
9 to give an illustration of exactly what the
10 differences were in the pay between those two
11 wells.

12 Q. What does this show you?

13 A. Qualitatively, it shows that the Bogle
14 Flats Unit #3, which is located on the left, has
15 significantly more pay, than the Indian Basin "D"
16 #1 well, which is the log shown on the right.

17 Q. In terms of establishing an allowable
18 at the level you're requesting for the summer
19 period, what effect does reservoir thickness have
20 upon that decision?

21 A. It has no effect on that decision.

22 Q. Summarize for us, Mr. Kent, what you
23 propose to accomplish with the adjustment.

24 A. What we propose to accomplish with our
25 adjustment is the establishment of an F1 factor

1 of 196,500 Mcf per month, which is a continuation
2 from the winter period.

3 It also reflects the current productive
4 capacity of the field, and it also provides the
5 operators the opportunity to produce their gas
6 without restriction.

7 Q. In terms of how that production is
8 distributed among the operators, it is shared
9 principally among which operators?

10 A. Principally it's shared among Marathon,
11 Chevron and Oryx.

12 Q. Do you see any opportunity for the
13 impairment of correlative rights if the Division
14 or the Commission accepts your recommended
15 adjustment?

16 A. No, I don't.

17 MR. KELLAHIN: That concludes my
18 examination of Mr. Kent, Mr. Chairman. I move
19 the introduction of his Exhibits 1 through 9.

20 CHAIRMAN LEMAY: Exhibits 1 through 9
21 will be admitted into the record without
22 objection.

23 Questions of the witness? Commissioner
24 Carlson?

25 EXAMINATION

1 BY COMMISSIONER CARLSON:

2 Q. If we accept your recommended
3 allocation, would any of these wells be curtailed
4 at all?

5 A. There would be four wells that would be
6 capable of producing in excess and would start
7 accruing overproduction, and eventually there
8 would be a curtailment.

9 COMMISSIONER CARLSON: That's all I
10 have.

11 CHAIRMAN LEMAY: Commissioner Weiss?

12 EXAMINATION

13 BY COMMISSIONER WEISS:

14 Q. What is the general nature of the
15 workovers?

16 A. Most of them were reperforation,
17 installing larger tubing, making modifications to
18 surface facilities. This reservoir, when
19 initially discovered, was about 3,000 pounds
20 reservoir pressure. We're down somewhere below
21 1,500. With the gas expansion, you're seeing a
22 lot larger pressure drops now than what you were
23 originally, which acted to choke the wells back.

24 COMMISSIONER WEISS: That's the only
25 question I had. Thank you.

1 CHAIRMAN LEMAY: Just one.

2 EXAMINATION

3 BY CHAIRMAN LEMAY:

4 Q. Are you still pursuing your efforts to
5 unitize?

6 A. We've not had formal discussions with
7 the other operators since last summer, but that
8 is still an option.

9 Q. Kind of a dead one, you think?

10 A. It depends on what the attitude of some
11 of the other operators is. It was at the point
12 last summer where it reached a stalemate, so it's
13 dependent on the decisions of some of the other
14 operators in the pool.

15 CHAIRMAN LEMAY: Commissioner Weiss?

16 FURTHER EXAMINATION

17 BY COMMISSIONER WEISS:

18 Q. I did notice that the working interests
19 have changed somewhat, namely Oryx's. Does that
20 have anything to do with what you're talking
21 about?

22 A. You're talking about the working
23 interest share of production?

24 Q. The ownership.

25 A. Well, that's not ownership, it's

1 working interest share of gas produced, and I
2 think that's a direct reflection on the work that
3 Oryx did to improve the capacity of their wells.

4 Q. You think that may have something to do
5 with unitization, or the prospects of it?

6 A. I really can't say. I don't know what
7 the motivation of some of the other companies
8 are.

9 COMMISSIONER WEISS: Thank you.

10 CHAIRMAN LEMAY: That's all I have.
11 Thank you, Mr. Kent.

12 MR. KELLAHIN: I have a quick follow-up
13 question.

14 FURTHER EXAMINATION

15 BY MR. KELLAHIN:

16 Q. Let me address Commissioner Weiss'
17 issue as a follow-up with you, Mr. Kent.

18 When you look at Exhibit No. 3, on the
19 second column from the right you've listed 36
20 wells. How many actual wells are there in the
21 pool?

22 A. There's actually 38 wells in the pool.

23 Q. There are two wells that Chevron
24 operates in which Chevron doesn't have a working
25 interest?

1 A. That's correct.

2 Q. Those two wells, the working interest,
3 is held by Oryx, is it?

4 A. It's Oryx and Marathon.

5 Q. So there's a slight difference in the
6 working interest versus operatorship, as the way
7 you've tabulated it?

8 A. Correct.

9 Q. All right. In terms of establishing an
10 allowable, is it still your company's position
11 that you support capacity allowables for the
12 Indian Basin-Upper Pennsylvanian pool?

13 A. Yes, it is.

14 Q. But in an effort to compromise and
15 develop an agreeable allowable schedule, you're
16 proposing to maintain the current allowable for
17 the summer period?

18 A. That's correct.

19 Q. So those allowables you're recommending
20 are less than capacity?

21 A. That's correct.

22 MR. KELLAHIN: All right, sir.

23 CHAIRMAN LEMAY: Thank you. Additional
24 questions?

25 Thank you, Mr. Kent. You may be

1 excused.

2 MR. KELLAHIN: Call John Gilbert.

3 JOHN P. GILBERT

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

6 EXAMINATION

7 BY MR. KELLAHIN:

8 Q. Mr. Gilbert, would you identify
9 yourself for the record?

10 A. My name is John P. Gilbert. I work
11 with Marathon Oil Company.

12 Q. In what capacity are you employed, sir?

13 A. As a natural gas marketing
14 representative.

15 Q. Where do you reside?

16 A. Midland, Texas.

17 Q. What, if any, responsibility do you
18 have as a gas marketer for gas produced out of
19 the Indian Basin-Upper Pennsylvanian gas pool?

20 A. I'm solely responsible for marketing
21 Marathon's portion of the production at the
22 tailgate of the Indian Basin gas plant.

23 Q. In addition to marketing Marathon's
24 share of that gas, are you also familiar with
25 what the other operators are doing in terms of

1 marketing their gas?

2 A. Yes; not actually knowing their
3 markets, but I do know their nominations at the
4 tailgate of the plant and the amount that they're
5 selling.

6 Q. In your opinion, is there adequate
7 market demand to market all the gas that would be
8 produced from the pool if the Commission adopts
9 Mr. Kent's proposed adjustment?

10 A. Yes, sir, there's more than enough
11 market.

12 Q. Give us a quick summary with regards to
13 the Indian Basin-Upper Penn, of what market
14 conditions are and what you forecast them to be
15 for this pool for the next proration period.

16 A. As I just stated, there's enormous
17 opportunity to market at Indian Basin. It's a
18 wonderful place to own gas. Not only can that
19 gas flow west, to California, actually, most of
20 our market is in the northeast. That gas can
21 also be brought to the Gulf Coast via the Waha
22 hub in West Texas. We see no limited market
23 capabilities whatsoever.

24 Q. Do you see any seasonal cycle to the
25 market demand for production out of this pool?

1 A. No, sir.

2 MR. KELLAHIN: No further questions.

3 CHAIRMAN LEMAY: Questions of the
4 witness? Commissioner Carlson?

5 EXAMINATION

6 BY COMMISSIONER CARLSON:

7 Q. Where do you market that gas currently?

8 A. We have a package--this is Marathon's
9 portion--currently going to the northeast,
10 particularly Indiana. I prefer not to elaborate
11 my exact market because my competition is in the
12 room.

13 We also have a package going to the
14 Gulf Coast. We have this month, the month of
15 February, a package going to intrastate New
16 Mexico, and one small package going to
17 California.

18 Q. Are those warranty contracts? Are they
19 tied specifically to Indian Basin gas wells?

20 A. 21 million cubic feet of the 33 million
21 I market there are going to production-guaranteed
22 contracts year-round, long-term. We worked hard
23 for those contracts and we're very proud of
24 them.

25 11 million a day is going to spot

1 market for the month of February. However,
2 commencing day after tomorrow, March 1st, 10
3 million is going to another long-term market in
4 the East.

5 Q. Are they specifically tied to the
6 Indian Basin?

7 A. Yes, sir, they are. With the
8 transportation involved in the various pipelines,
9 the package of gas is guaranteed from Indian
10 Basin.

11 COMMISSIONER CARLSON: That's all I
12 have.

13 CHAIRMAN LEMAY: Commissioner Weiss?

14 COMMISSIONER WEISS: No questions.

15 EXAMINATION

16 BY CHAIRMAN LEMAY:

17 Q. What would happen if the Indian Basin
18 field, for some reason, was shut down? Would
19 that mean you would be in default of your
20 contracts?

21 A. Well, we would not let that happen. We
22 have other reserves we would have to route, even
23 if it's at a loss. We'll back up our contracts
24 with production. In fact, when the turn-around
25 is geared up for June of 93, we're already making

1 those arrangements to serve our contracts with
2 other production.

3 Q. So, then, the production from the
4 Indian Basin isn't the sole guarantor of your
5 marketing contracts?

6 A. Not the sole guarantor, but with the
7 way the transportation fits and the way we priced
8 our contracts, had Indian Basin in mind.

9 Q. You had Indian Basin in mind?

10 A. In mind, absolutely.

11 Q. It's not specified in your contracts?

12 A. It's not specified. It's one of the
13 delivery points cited in the contract, and that's
14 the gas we prefer to use. However, if we have to
15 reroute at a lot, we will do it to guarantee our
16 contracts.

17 Q. There again, that's Marathon's choice
18 and not a specific condition of the market
19 requesting Indian Basin gas?

20 A. Sir?

21 Q. It's not a specific criteria in the
22 contract? In other words, your buyers didn't
23 specifically request Indian Basin gas, and
24 default would result if they didn't get it?

25 A. That's accurate.

1 CHAIRMAN LEMAY: Okay. Thank you. Any
2 more questions? Thank you very much, Mr.
3 Gilbert.

4 MR. KELLAHIN: Mr. Chairman, I would
5 like to call Mr. Rick Hall from Oryx Energy
6 Company.

7 RICHARD W. HALL

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

10 EXAMINATION

11 BY MR. KELLAHIN:

12 Q. Mr. Hall, would you please state your
13 name and occupation?

14 A. My name is Richard W. Hall, and I work
15 for Oryx Energy Company.

16 Q. In what capacity, sir?

17 A. I'm a production/operations engineer
18 for Oryx.

19 Q. Where do you reside?

20 A. Dallas, Texas.

21 Q. At the prior allowable hearing before
22 the Commission in August of 92, were you an
23 expert witness on this subject for your company?

24 A. Yes, sir, I was.

25 Q. Have you continued in that capacity for

1 your company and now have recommendations for an
2 allowable for the Indian Basin-Upper
3 Pennsylvanian gas pool?

4 A. Yes, I do.

5 MR. KELLAHIN: We Tender Mr. Hall as an
6 expert witness.

7 CHAIRMAN LEMAY: His qualifications are
8 acceptable.

9 Q. Mr. Hall, summarize for us what your
10 company's position is with regards to allowables
11 for the summer proration period for this pool.

12 A. Our company's position is the same as
13 Marathon's. It is to request an adjustment in
14 the proposed allowable for an F1 factor of
15 196,500 Mcf. We would like to keep the same
16 level in the winter through the summer.

17 Q. Identify for us, Mr. Hall, what is
18 contained on Exhibit No. 1.

19 A. Exhibit No. 1 is a letter stating
20 Oryx's position to Mr. Larry Van Ryan, asking
21 that the acreage allocation factor of 196,500 be
22 considered for the Indian Basin-Upper Penn pool.

23 Q. Let's turn to Exhibit No. 2, and
24 describe for us the reasons why you're requesting
25 an allowable at this level.

1 A. As mentioned by Marathon, Oryx has done
2 extensive well work in this field and has
3 continued through the winter period. To date
4 we've spent \$604,000 on capital and expense
5 outlays to work our wells over.

6 We also have proposed spending of
7 \$150,000 on the table that we would like to
8 continue, for a total of \$754,000 in this field.

9 Q. Turn now to Exhibit No. 3 and identify
10 that for us.

11 A. Exhibit No. 3 is a well-by-well
12 breakdown of production of the wells that Oryx
13 operates, for the winter period.

14 The middle column is a listing of the
15 proration schedule published for us and totals
16 385,474 Mcf.

17 Q. Stop a moment. Where does that number
18 come from?

19 A. That comes from the OCD's published
20 October through March or winter allowable book.

21 Q. Does this represent the allowable
22 assigned to those wells?

23 A. Yes, sir, it represents the allocation
24 for these wells as a marginal basis.

25 Q. In terms of the allowable, how much of

1 that allowable have you actually produced for
2 each of those wells?

3 A. That's the right-hand column. We've
4 exceeded the allowable on all those wells--I
5 shouldn't say "allowable," the allocation of all
6 those wells, which you can see in the right-hand
7 column. This is what we're predicting we will
8 produce through the end of March.

9 Q. What's your point?

10 A. The point is, as Marathon talked about,
11 the marginal wells are using up the allotted
12 production or they're exceeding the allotted
13 production, and this is part of that reasoning in
14 the workovers of the wells. And, as you see, no
15 wells will violate the adjusted allowable of
16 196,495 that was given to us recently.

17 Q. Do you forecast any lessening of market
18 demand in this forthcoming summer period than you
19 currently have for the winter period?

20 A. No, we don't.

21 Q. Turn now to Exhibit No. 4, and identify
22 and describe that for us.

23 A. Exhibit No. 4 is a similar slide with
24 the summer period. The left-hand column are the
25 well names, the center column is the published

1 allocation for April 92 through September of 92,
2 the last summer period.

3 What I'm doing, I'm comparing summer
4 periods, what I think our wells are going to make
5 or an estimate, versus what they were scheduled
6 previously.

7 Q. The preliminary schedule introduced by
8 the Division shows a nonmarginal monthly acreage
9 factor of just over 172,000--

10 A. Correct.

11 Q. --for this, and that's based upon
12 historic production for the summer of 92.

13 In your opinion, is that representative
14 of what will be the market demand for gas
15 production for the summer of 93?

16 A. No, it's not. We believe that the
17 demand we have now will continue through the
18 summer. If we're held to that number, as you can
19 see in the right-hand column, four of our five
20 wells will exceed that volume and will be
21 gathering overages.

22 Q. Turn to Exhibit 5, and--

23 A. Let me make one more point about that
24 exhibit.

25 Q. Yes, sir.

1 A. There is one well, the Federal 28-1.
2 We're predicting 212,800 Mcf per month, that will
3 exceed even our proposed allowable of 196,500.

4 Q. So you can at least forecast at least
5 one, if not more of your wells, as being
6 nonmarginal and capacity curtailed?

7 A. Yes, sir.

8 Q. All right. Go to No. 5 now and
9 identify that for us.

10 A. No. 5 is a plot of production volume
11 for the Oryx Energy-operated wells. It's
12 basically the previous slides, the production
13 summed on a daily basis.

14 The first downward spike, as we
15 mentioned, is a plant down time. The second is
16 also plant down time. Then, in 1992, you see an
17 upward trend begin due to the workovers that
18 we've talked about. And you'll also note that
19 there is no summer adjustment in 92, and we don't
20 expect any in 93.

21 Q. This tracks production from your wells,
22 marginal and nonmarginal?

23 A. Yes, sir, the summation.

24 Q. All right. Exhibit No. 6, identify and
25 describe that for us, please.

1 A. Exhibit No. 6 is a letter from our gas
2 marketing group or gas marketing company, Oryx
3 Gas Marketing, and it welcomes the opportunity to
4 service additional gas deliverability at the
5 Indian Basin plant.

6 It also mentions that we do market our
7 gas in the West Coast, the Midwest, and the Texas
8 Gulf Coast, not only just California companies.

9 Q. As you understand it, does your company
10 have sufficient market demand for your share of
11 gas to produce up to the allowable level you're
12 requesting the Commission adopt?

13 A. Yes, sir.

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

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

20 Questions of the witness?

21 COMMISSIONER CARLSON: No questions.

22 CHAIRMAN LEMAY: Commissioner Weiss?

23 EXAMINATION

24 BY COMMISSIONER WEISS:

25 Q. I would have the same question about

1 unitization. Has it been brought up again with
2 Oryx.

3 A. Informally we've talked with Marathon,
4 and we favor unitization. That's Oryx's
5 position.

6 COMMISSIONER WEISS: Thank you.

7 CHAIRMAN LEMAY: I have a question on
8 compressors.

9 EXAMINATION

10 BY CHAIRMAN LEMAY:

11 Q. You have two compressors you've
12 installed?

13 A. Yes, sir.

14 Q. Do you know how many compressors there
15 are? Is that all you have on your wells? You
16 have compressors on two wells?

17 A. We have compression on two wells, yes,
18 sir.

19 Q. Do you know how the competition is
20 faring with compressors? How many they have?

21 A. I believe Marathon has several
22 compressors. I don't know about Chevron. I
23 don't think they have as many as either one of
24 us.

25 Q. In a competitive situation like that,

1 with compressors, how does that affect what
2 you're requesting in terms of allowable? Would
3 you add more compressors with higher allowables?
4 Are the compressors there to gain competitive
5 advantages?

6 Or, maybe you can answer this
7 question. Would it be better to put the
8 compressor at the plant rather than the wells
9 fighting each other for an advantage with
10 compressors?

11 A. Boy, that's a difficult question. It
12 really just depends on the well. Some wells you
13 don't require compressing because they're better
14 wells. The lower-structure wells are probably
15 going to need compression because you have some
16 water influx that's hurting, and that's our
17 situation. Our worst wells have compressors on
18 them; our best wells don't.

19 Q. They don't. That was my next question.
20 Your nonmarginal wells do not have compression?

21 A. Neither nonmarginal well has
22 compression, yes, sir.

23 CHAIRMAN LEMAY: Thank you. Any other
24 questions? You may be excused. Thank you very
25 much.

1 Mr. Carr?

2 MR. CARR: May it please the
3 Commission, at this time I would call Brian
4 Huzzey to testify for Chevron.

5 **BRIAN HUZZEY**

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

8 EXAMINATION

9 BY MR. CARR:

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

12 A. Brian Huzzey.

13 Q. Where do you reside?

14 A. Midland, Texas.

15 Q. By whom are you employed?

16 A. Chevron, U.S.A.

17 Q. In what capacity?

18 A. As a production and reservoir engineer.

19 Q. Mr. Huzzey, have you previously
20 testified before the Oil Conservation Commission?

21 A. No.

22 Q. Could you briefly summarize your
23 educational background and then review your work
24 experience?

25 A. I graduated from West Virginia

1 University with a B.S. in petroleum engineering
2 in May of 1982. I went to work for Gulf Oil
3 Company in June of 1982, and have been with
4 Gulf/Chevron since that time.

5 I've worked as a facilities or
6 equipment engineer, field engineer, production
7 engineer, reserves engineer, reservoir engineer,
8 and now I'm currently a production and reservoir
9 engineer.

10 Q. Are you familiar with how allowables
11 are set for the prorated gas pools in
12 Southeastern New Mexico?

13 A. Yes, I am.

14 Q. And have you reviewed the preliminary
15 allowables for the Indian Basin-Upper Penn pool
16 for the period from April through September of
17 1993?

18 A. Yes, I have.

19 Q. Are you familiar with Chevron's
20 operations in this pool?

21 A. Yes.

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

24 CHAIRMAN LEMAY: They're acceptable.

25 Q. Mr. Huzzey, could you refer to what has

1 been marked Chevron Exhibit No. 1, and review
2 that for the Commission, please?

3 A. Yes. This exhibit shows the Indian
4 Basin-Upper Penn pool production by operator for
5 November of 1992. If you'll note in the legend,
6 it also shows an incremental increase on the
7 Chevron portion of this graphic, showing the
8 results of our workover efforts in December and
9 January.

10 Q. The total, 40.10 percent, reflects
11 what?

12 A. Chevron's gross November production and
13 the incremental production from the work we've
14 performed in December and January.

15 Q. All right. Now let's go to Chevron
16 Exhibit No. 2. Identify that for us, please?

17 A. This is a plot of the Indian Basin
18 pool, Chevron-operated production, and there are
19 three areas of this graph that I would like to
20 note.

21 On the far left you'll note, about
22 October 14th and 15th, we removed the chokes from
23 all of our wells, and this resulted in an
24 incremental increase of approximately 3,700 Mcf
25 per day.

1 The production then stabilized
2 throughout November, while we did geological and
3 engineering work to determine what else we should
4 proceed with. In December, we started doing
5 tubing changeouts and some acid work, reperf and
6 acid work, which resulted in another incremental
7 increase of approximately 11,000 Mcf per day.

8 Q. Anything else on Exhibit No. 2?

9 A. Well, the only other point of interest
10 is the Indian Basin gas plant had problems in
11 January, which significantly curtailed
12 production.

13 Q. Basically, Exhibit No. 2 shows results
14 of Chevron's efforts to workover certain wells in
15 this pool since the last allowable hearing?

16 A. The majority of the wells operated by
17 Chevron have now been worked on to protect our
18 rights.

19 Q. All right. Well, let's now move to
20 Exhibit No. 3. Can you identify and explain what
21 this is designed to show?

22 A. This shows the typical type of work
23 that we've performed on Indian Basin wells.
24 This is Chevron's Federal Gas Com "33" #1, and in
25 this particular well we received a 680 Mcf per

1 day increase by removing the choke. This
2 stabilized for approximately a month, month and a
3 half.

4 We did a tubing changeout from 2-3/8 to
5 3-1/2" and received a 1,500 Mcf a day increase.
6 And then in January we performed some perforation
7 and acid work, which added another 750 Mcf per
8 day.

9 Eight of our ten wells have been worked
10 on at this time.

11 Q. Let's go to Exhibit No. 4. Identify
12 the well and then explain to the Commission what
13 this exhibit is designed to show.

14 A. This is Chevron's Bogle Flats Unit #3,
15 previously mentioned by Marathon. It has shown
16 significant increases in production, from
17 approximately 4,000 Mcf per day prior to our
18 work, to a current rate of approximately 7,500 to
19 7,600 Mcf per day.

20 If you'll note on the right-hand side,
21 that is the winter allowable in the dark line,
22 and shows this well consistently exceeds the
23 winter allowable.

24 Q. Is this Chevron's top producer in the
25 pool?

1 A. This is currently our top producer in
2 the pool.

3 Q. And it is capable of overproducing the
4 allowable, both the existing and the recommended
5 allowable, is that correct?

6 A. That is correct.

7 Q. What is Exhibit No. 5?

8 A. Exhibit No. 5 is another one of our
9 successful workovers. In this exhibit you can
10 note, back in October, again, that we had a 600
11 to 800 Mcf a day increase just by removing the
12 chokes.

13 In this well, the only other work that
14 has been performed at this time, we changed out
15 the tubing size, increased the tubing size, and
16 received approximately a 2,200 Mcf a day increase
17 from this work. This well also consistently
18 produces over the winter allowable.

19 Q. And now Exhibit No. 6?

20 A. Exhibit No. 6 is the Fed Com "33" #1
21 again, and in this well we did get results from
22 both the choke removal, tubing changeout, and the
23 acid work. It is slightly over the winter
24 allowable and has been consistent so far, on a
25 daily basis, of producing slightly over the

1 winter allowable.

2 Q. What is the purpose of presenting this
3 information to the Commission?

4 A. We feel that the Commission needs this
5 information to better understand where the pool's
6 production stands at this time so that they can
7 assign an equitable allowable for the upcoming
8 proration period.

9 Q. Basically, has Chevron undertaken these
10 efforts to protect its correlative rights?

11 A. Yes.

12 Q. Are you in a position here today to
13 make exact recommendations as to what the
14 allowable adjustment should be for the pool on a
15 pool-wide basis?

16 A. No. Our position primarily is, as I
17 stated, to present information to the Commission
18 so that they can undertake to determine what an
19 appropriate allowable would be.

20 Q. Has Chevron been discussing what an
21 appropriate allowable rate might be for this
22 pool?

23 A. Yes. In-house we've discussed rates
24 from approximately 6,100 Mcf a day up to 6,400
25 Mcf a day.

1 Q. But you're not making any particular
2 recommendation?

3 A. Not at this time.

4 Q. You were present when Marathon made its
5 presentation here this afternoon, were you not?

6 A. Yes.

7 Q. You heard the adjustments that they
8 were recommending to the proposed allowable for
9 this pool?

10 A. Yes.

11 Q. Does Chevron have any objection to the
12 allowable limits that are being proposed here
13 today by Marathon?

14 A. No.

15 Q. Will Chevron also be calling a witness
16 to testify as to market trends from the Indian
17 Basin-Upper Penn pool?

18 A. Yes, we will.

19 Q. Were Exhibits 1 through 6 prepared by
20 you?

21 A. Yes.

22 MR. CARR: At this time, Mr. LeMay, we
23 would move the admission of Chevron Exhibits 1
24 through 6.

25 CHAIRMAN LEMAY: Without objection,

1 Exhibits 1 through 6 will be admitted into the
2 record.

3 MR. CARR: That concludes my direct
4 examination of Mr. Huzzey.

5 CHAIRMAN LEMAY: Questions of the
6 witness?

7 MR. KELLAHIN: No questions, Mr.
8 Chairman.

9 CHAIRMAN LEMAY: Commissioner Carlson?

10 EXAMINATION

11 BY COMMISSIONER CARLSON:

12 Q. How do I reconcile your Exhibit No. 1
13 with Marathon's Exhibit No. 3? Do you have that
14 exhibit in front of you?

15 A. Yes. Marathon's exhibit is based on
16 the working interest production, whereas mine is
17 based on gross operator production.

18 Q. Would yours include those two wells
19 that you don't own a working interest in?

20 A. Yes, it does.

21 Q. I assume that's the main difference,
22 then?

23 A. That, plus Marathon and Oryx both have
24 working interests in other wells in our area.

25 Q. If I want to look at marketed share of

1 production, I would look at Marathon's exhibit
2 and not yours?

3 A. Yes. However, if you look at
4 Marathon's percent share, it's based on October
5 through December. We had a tremendous amount of
6 well work done in December, so our production was
7 down.

8 At this time, the incremental
9 production that I mentioned of approximately
10 15,000 Mcf per day, that graphic does not
11 illustrate that incremental production or
12 Chevron's share of that incremental production.

13 COMMISSIONER CARLSON: I see. Thank
14 you. That's all I have.

15 CHAIRMAN LEMAY: Commissioner Weiss?

16 EXAMINATION

17 BY COMMISSIONER WEISS:

18 Q. Did I understand you to say that you
19 feel, as a result of your workover program, that
20 your correlative rights are not protected?

21 A. Yes. And as with Oryx, we still have
22 some additional work we are going to perform in
23 this field.

24 COMMISSIONER WEISS: No other
25 questions. Thank you.

1 CHAIRMAN LEMAY: No questions. Thank
2 you very much. Additional questions, Mr. Carr?

3 MR. CARR: No.

4 CHAIRMAN LEMAY: The witness may be
5 excused.

6 MR. CARR: I would like to call Robert
7 Green.

8 ROBERT E. GREEN

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

11 EXAMINATION

12 BY MR. CARR:

13 Q. Mr. Green, would you state your full
14 name for the record?

15 A. My name is Robert E. Green.

16 Q. Where do you reside?

17 A. I reside in Midland, Texas.

18 Q. By whom are you employed?

19 A. I work for Chevron, U.S.A.,
20 Incorporated, as a natural gas coordinator.

21 Q. Have you previously testified before
22 this Commission?

23 A. No, I have not.

24 Q. Would you briefly summarize your
25 educational background and then review your work

1 experience?

2 A. Yes. I graduated in December of 1973
3 from Texas Tech University with a bachelor of
4 science in petroleum engineering. After going to
5 work for Gulf Oil in Hobbs, New Mexico, I was
6 called in to active duty with the Air Force, and
7 returned from the Air Force in 1981.

8 I reinstated my employment with Gulf,
9 which became Chevron, in the Permian Basin and
10 I've spent the the past 12 years in the Permian
11 Basin in various natural gas-related jobs.

12 Q. How long have your duties with Chevron
13 included a responsibility for marketing Chevron's
14 natural gas?

15 A. In various capacities and involvement,
16 I've spent the past seven years in marketing of
17 the natural gas.

18 Q. And what is your current position?

19 A. My current position is natural gas
20 coordinator in the Permian Basin and, as such, I
21 and my staff coordinate the availability of gas,
22 communicate that with our marketing group in our
23 gas sales and transportation.

24 We dispatch the gas into the pipeline,
25 and we, additionally, perform contract

1 administration, measurement analyses, market
2 analyses and regulatory affairs. Additionally, I
3 monitor and provide input on legislative actions
4 affecting natural gas in the state of New Mexico.

5 Q. Are you familiar with Chevron's efforts
6 to market gas from the Indian Basin-Upper Penn
7 pool?

8 A. Yes, I am.

9 Q. Are you also a registered petroleum
10 engineer?

11 A. Yes. I'm a registered petroleum
12 engineer in the state of Texas.

13 MR. CARR: May it please the
14 Commission, we would tender Mr. Green as an
15 expert witness in petroleum engineering and gas
16 marketing matters.

17 CHAIRMAN LEMAY: His qualifications are
18 acceptable.

19 Q. What is the purpose of your testimony
20 here today?

21 A. The purpose of my testimony today is to
22 report to the Commission on Chevron's
23 reorientation of marketing New Mexico gas, and
24 Chevron's position in New Mexico.

25 Q. How much natural gas does Chevron

1 actually produce and sell from this state?

2 A. The Chevron Production Company sells
3 77,000 Mcf a day from New Mexico.

4 Q. How much of this production comes from
5 the Indian Basin-Upper Penn?

6 A. Currently, we are selling 31,000 Mcf a
7 day from the tailgate of the Indian Basin plant.

8 Q. What percent of Chevron's total New
9 Mexico production does this actually represent?

10 A. This represents 40 percent of Chevron's
11 production in the state of New Mexico.

12 Q. How much natural gas is Chevron
13 actually selling nationally?

14 A. Chevron spot-markets a Bcf a day of
15 gas.

16 Q. How much of that is from New Mexico?

17 A. From New Mexico, from the production
18 company, we have about eight percent of that.
19 With our affiliate, Warren Petroleum, we're in
20 excess of 12 percent of the spot-marketed gas.

21 Q. How much of your total national gas
22 spot-market sales comes from the Indian
23 Basin-Upper Penn pool?

24 A. Three percent of the gas that we
25 spot-market nationally comes from the Indian

1 Basin-Upper Penn pool.

2 Q. Could you review for the Commission the
3 changes in your marketing arrangements which have
4 occurred during the last year for gas from the
5 Indian Basin-Upper Penn pool?

6 A. Yes. I would like to start with
7 February of last year. We've seen a 180-degree
8 turn in the way that we deal with it. At this
9 time last year, Chevron was marketing all of its
10 gas from the Indian Basin pool in the California
11 market area. Today, we have negotiated and
12 contracted various transportation options to move
13 and sell our gas east of California.

14 We currently have contract areas in the
15 Texas Gulf Coast, East Texas, the Louisiana Gulf
16 Coast, the Waha hub, the Midwest United States,
17 and we're working on future opportunities to move
18 our gas internationally into Mexico.

19 Currently, we're marketing most of the
20 Indian Basin gas in the Chicago area.

21 Q. How does Chevron currently view the
22 natural gas industry and natural gas markets?

23 A. Chevron's current view towards natural
24 gas is, we're bullish on gas. Due to the FERC
25 Order 636 and other events, there has been

1 significant confusion in the industry in the past
2 few months. This has caused a shift to lower the
3 natural gas in storage, and by adding to the late
4 winter cold snap, we're seeing a shortage of
5 natural gas in storage in the industry.

6 Q. How does your company view the current
7 supply/demand situation?

8 A. Currently, we believe that the industry
9 is in a relative supply/demand balance and we
10 anticipate the supply/demand balance to remain
11 virtually level throughout the summer season.

12 Q. Why do you think it's going to remain
13 stable?

14 A. We anticipate that if the price is
15 softened during the summer season that the
16 industry will take advantage of this to fill
17 storage and, therefore, maintaining the supply
18 side of it and maintaining the prices. So we
19 should see a fairly stable price and supply
20 during the summer cycle.

21 Q. How do you think the prices currently
22 being received for natural gas will compare to
23 prices received later during calendar year 1993?

24 A. Based on the current situation of the
25 winter and the New York Mercantile Exchange,

1 Chevron, U.S.A. believes the industry has
2 probably seen the lowest prices for 1993.

3 Q. Do you have anything further to add to
4 your testimony?

5 A. No, I don't.

6 MR. CARR: That concludes my direct
7 examination of Mr. Green.

8 CHAIRMAN LEMAY: Thank you, Mr. Carr.
9 Questions of the witness? Mr.
10 Kellahin?

11 EXAMINATION

12 BY MR. KELLAHIN:

13 Q. Mr. Green, let me ask you a few
14 follow-up questions. The current allowable level
15 for the Indian Basin is such that, I believe your
16 engineer testified, you're producing in excess of
17 that allowable on certain of your nonmarginal
18 wells.

19 Do you continue to enjoy a market
20 demand that will allow you to produce the winter
21 allowable, if that is established for this coming
22 summer period?

23 A. Could you rephrase that question, sir?

24 Q. I'll repeat it. What is the market
25 demand that you forecast at the Marathon

1 allowable level for the summer period?

2 A. I think it would be easier if I were to
3 state that Chevron's marketing intentions and
4 Chevron's production intentions can be easily met
5 with the current conditions.

6 Q. "Current conditions" meaning, the
7 allowable level that we now have in Indian Basin
8 in the winter period? That's 196,500 Mcf for an
9 F1 factor.

10 A. That's correct.

11 Q. If we keep that in place for the summer
12 period, are you going to be able to market and
13 sell that gas that you would produce under that
14 schedule?

15 A. Chevron will be able to market and sell
16 its gas through the entire spread of the proposed
17 allowables that we've seen here, from both the
18 OCD, and from what we have discussed, and from
19 what Marathon has discussed. None of those
20 proposals would inhibit our ability to market and
21 sell the gas.

22 Q. Would it give you more allowable than
23 you can produce from your nonmarginal wells? Let
24 me phrase that again. I've confused you.

25 Would the allowable be in excess of the

1 market demand for your share of production, if
2 it's set at the Marathon proposed level?

3 A. Would the allowable be in excess of our
4 market demand?

5 Q. Right.

6 A. I'm not sure I understand your
7 question.

8 Q. I don't know how to make it clearer for
9 you, but I'll try again. You're currently
10 selling gas in excess of the current allowable
11 for the winter period?

12 A. That's correct.

13 Q. You must have a market demand for gas
14 in excess of the current allowable?

15 A. That's correct.

16 Q. Do you forecast that to change for the
17 summer?

18 A. No.

19 Q. Do you see any seasonal cycle you ought
20 to factor in, when we establish allowables for
21 the summer?

22 A. We, through our marketing efforts have,
23 essentially, eliminated seasonal cycles.

24 MR. KELLAHIN: Thank you.

25 CHAIRMAN LEMAY: Additional questions

1 of the witness?

2 COMMISSIONER CARLSON: No questions.

3 COMMISSIONER WEISS: No questions.

4 CHAIRMAN LEMAY: No questions. Thank
5 you very much.

6 Do we have any more witnesses? Any
7 statements for any of the fields in the
8 southeast? Anything additional?

9 Thank you. We'll take the case under
10 advisement.

11 We'll take about a 10-minute break and
12 get ready for the next case.

13 (And the proceedings concluded.)

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1 CERTIFICATE OF REPORTER

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

5
6 I, Carla Diane Rodriguez, Certified
7 Court Reporter and Notary Public, HEREBY CERTIFY
8 that the foregoing transcript of proceedings
9 before the Oil Conservation Commission was
10 reported by me; that I caused my notes to be
11 transcribed under my personal supervision; and
12 that the foregoing is a true and accurate record
13 of the proceedings.

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

19 WITNESS MY HAND AND SEAL March 10,
20 1993.

21
22
23 
24 CARLA DIANE RODRIGUEZ, R.R.
25 CCR No. 4

NEW MEXICO OIL CONSERVATION COMMISSION

COMMISSION HEARINGSANTA FE, NEW MEXICOHearing Date FEBRUARY 25, 1993 Time: 9:00 A.M.

NAME	REPRESENTING	LOCATION
<i>[Signature]</i>	<i>[Signature]</i>	Santa Fe
<i>[Signature]</i>	<i>[Signature]</i>	Santa Fe
Brian Huzzey	Chevron USA	Midland
Robert Green	Chevron USA	Midland
Alan Bohling	Chevron U.S.A.	Midland
<i>[Signature]</i>	<i>[Signature]</i>	Midland, TX
<i>[Signature]</i>	<i>[Signature]</i>	Midland, TX
John P. Kellum	Meridian U.	Midland, TX
Maurice Thumma	Byram C	Midland
Rick Hall	Ory. Energy	Dallas
Bill Hawkins	FMCO	Denver
James Bruce	Hinkle Law Firm	Santa Fe
Craig Van Horn	Unocal	Farmington
Bill Darrag	Exxon	Midland
VICTOR LYON	Consultant	Santa Fe
Jim FRASER	Meridian	Farmington
Kirk Craig	Phillips	Farmington

NEW MEXICO OIL CONSERVATION COMMISSION

COMMISSION HEARINGSANTA FE, NEW MEXICOHearing Date FEBRUARY 25, 1993 Time: 9:00 A.M.

NAME	REPRESENTING	LOCATION
Michael Pierce	C+C LANDFILL Inc	Hobbs
Eddie W. Swan	" "	Hobbs
MARK E. ELLIS	MERIDIAN OIL	FARMINGTON
Arden L. Walker, Jr.	Meridian Oil	Farmington
Mike Larimer	Ph. Up. Pet.	"
Bill Olson	NMOC D	Santa Fe
Kathy Brown	NMOC D	Santa Fe