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STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

EXAMINER HEARING

IN THE MATTER OF:

Application of OXY USA, Inc., Case 9872
for termination of gas
prorationing in the Burton Flat-
Morrow Gas Pool, Eddy County,
New Mexico

ORIGINAL

TRANSCRIPT OF PROCEEDINGS

BEFORE: MICHAEL E. STOGNER, EXAMINER

STATE LAND OFFICE BUILDING

SANTA FE, NEW MEXICO

February 21, 1990

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(505) 984-2244

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1 HEARING EXAMINER: This hearing will come
2 to order. We'll call next case, No. 9872.

3 MR. STOVALL: Application of OXY USA, Inc.,
4 for termination of gas prorationing in the Burton
5 Flat-Morrow Gas Pool, Eddy County, New Mexico.

6 HEARING EXAMINER: Call for appearances.

7 MR. KELLAHIN: Mr. Examiner, I'm Tom
8 Kellahin of the Santa Fe law firm of Kellahin,
9 Kellahin & Aubrey, appearing on behalf of the
10 Applicant, and I have four witnesses to be sworn.

11 HEARING EXAMINER: Are there any other
12 appearances in this matter? Will the witnesses please
13 stand and be sworn?

14 (Witnesses sworn.)

15 MR. KELLAHIN: Thank you, Mr. Examiner.
16 Mr. Examiner, we have provided you with an exhibit
17 folder that has OXY's exhibits in it. Those exhibits
18 are numbered 1 through 32. In addition to those, I
19 have a separately packaged affidavit on the mailing of
20 notice to all the parties in the case.

21 I'd like to call at this time Mr. Rick
22 Foppiano, Mr. Examiner.

23 RICK FOPPIANO,
24 the witness herein, after having been first duly sworn
25 upon his oath, was examined and testified as follows:

DIRECT EXAMINATION

1
2 BY MR. KELLAHIN:

3 Q. Mr. Foppiano, for the record would you
4 please state your name and occupation.

5 A. My name is Rick Foppiano, spelled
6 F-o-p-p-i-a-n-o. My occupation is regulatory affairs
7 adviser for OXY USA.

8 Q. Mr. Foppiano, would you summarize for us
9 your educational background and employment experience?

10 A. Yes. I have a Bachelor of Science in Civil
11 Engineering from Georgia Institute of Technology which
12 I acquired in 1977. I have three years' work
13 experience for Halliburton Services, and in 1981, I
14 went to work for Cities Service, which is now OXY USA,
15 and since 1981 I have worked for OXY in various phases
16 of drilling and production operations in various
17 states in the south part of the U.S.

18 Q. What did your company ask you to do with
19 regards to the Burton Flat-Morrow Gas Pool in Eddy
20 County, New Mexico?

21 A. I was asked to analyze the Burton
22 Flats-Morrow Pool and looked to see what could be done
23 to give us the incentive to further develop the field
24 and to increase our production. And in that context,
25 I researched the allowables and various other things.

1 Q. Have you participated on behalf of your
2 company in the various prorationing study committees
3 formulated by the Oil Conservation Division?

4 A. Yes, I have.

5 Q. Have you previously testified before the
6 Division examiners with regards to the allowables
7 established in the Burton Flat-Morrow Gas Pool in Eddy
8 County, New Mexico?

9 A. Yes, I have.

10 MR. KELLAHIN: At this time, Mr. Examiner,
11 we tender Mr. Foppiano as an expert witness.

12 HEARING EXAMINER: Mr. Foppiano is so
13 qualified.

14 Q. (BY MR. KELLAHIN) Let me direct your
15 attention, sir, to what is marked as Exhibit No. 1.
16 Would you identify that display for us?

17 A. Yes. Exhibit No. 1 is a map showing the
18 field limits of the Burton Flat-Morrow field in Eddy
19 County, New Mexico. The field limits are shown with a
20 little dashed line. It's the outline of the Burton
21 Flats field. The proximity of other fields are also
22 shown, some which abut our field, some which are
23 within a mile.

24 Q. What does the color code show, Mr.
25 Foppiano?

1 A. The green indicates the marginal wells as
2 of the February 1990 proration schedule, and the
3 orange indicates the nonmarginal wells on that same
4 proration schedule.

5 Q. Have you and the other technical personnel
6 of OXY completed your study of the prorationing and
7 the production in the Burton Flat-Morrow Gas Pool?

8 A. Yes, we have.

9 Q. Based upon that study, have you come to any
10 conclusions?

11 A. Yes, I have.

12 Q. What is your conclusion?

13 A. That in the interest of conservation,
14 proration should be terminated in this field.

15 Q. Let me direct your attention, sir, to
16 Exhibit No. 2. Describe for us in a summary fashion,
17 if you will, Mr. Foppiano, the regulatory history for
18 the Burton Flat-Morrow Gas Pool.

19 A. Yes. The pool was created on March 1,
20 1973, by Order No. R-4486. Approximately a year
21 later, it became prorated by Order No. R-4706. And
22 since that time, the horizontal limits have been
23 extended from time to time.

24 One of the operators, Fasken, in 1985,
25 requested the OCD to terminate prorationing in this

1 field. Their request was denied at that time. And
2 just recently here in October 1989, OXY requested
3 administrative adjustments to the pool allowable, and
4 the request was granted, 380,000 Mcf, and 340,000 Mcf
5 were added to the pool allowable in October 89 and
6 November of 1989.

7 Q. Give us a summary, Mr. Foppiano, of the
8 basis for the October 1989 request by OXY for a bonus
9 allowable, if you will, for the pool.

10 A. The request was based upon my research and
11 our research of the company into the market demand in
12 the field and what was causing the fluctuations of
13 production in the field. And the analysis that
14 indicated that the fluctuations in production were not
15 due to market curtailment. They were in fact due to
16 low allowables, and in some cases, OCD mandated
17 curtailment.

18 We contacted all the operators and inquired
19 of them as to their market demand and discovered that,
20 except for one well, which the situation changed on it
21 in July of 1989, there was no market demand
22 curtailment or lack of market demand in the pool.

23 And so at that time our analysis showed
24 that in 1989, the pool had about 600,000 Mcf more
25 market demand than was reflected by the allowable, and

1 that was the basis for asking the OCD to
2 administratively increase the pool allowable to take
3 that into account.

4 Q. Let's give the Examiner some of the factual
5 information that is the background basis for
6 conclusions that you've reached in your study.

7 Let me turn now to OXY Exhibit No. 3.
8 Explain what you've depicted here.

9 A. What I'm showing here is an analysis of the
10 pipelines that are shown on the proration schedule as
11 taking gas from the field. There are 11 pipelines, as
12 indicated by the companies on the left of the graph
13 there. The graph shows the type of wells that are
14 connected to each of these pipelines.

15 To me this indicates, one, that El Paso is
16 the largest pipeline in the field in that they have
17 the largest number of connections, and also that the
18 nonmarginal and marginal wells are distributed across
19 the pipelines in the field.

20 Q. Turn now, sir, to Exhibit No. 4. Would you
21 identify and describe that exhibit?

22 A. Yes. This is an analysis of the producers
23 in the field, there again, using the February 1990
24 proration schedule. And I looked at the type of wells
25 that each producer has, and there are 19 operators,

1 and we show that there are marginal and nonmarginal
2 wells distributed throughout the various operators in
3 the field, as I've shown.

4 Q. Sir, let's turn to Exhibit No. 5. Would
5 you identify and describe that exhibit?

6 A. Yes. This is some more factual
7 information, summarizing the February 1990 proration
8 schedule. It shows that there are a total of 61 wells
9 in the field; 43 are marginal; 18 are classified as
10 nonmarginal.

11 The 18 nonmarginal wells are further broken
12 down into 61 percent of those 18 are underproduced,
13 and 39 percent are overproduced, as of the February
14 proration schedule.

15 HEARING EXAMINER: What does this break out
16 to wells, 61 percent of 18 wells? What does that
17 break out to?

18 THE WITNESS: If you'll give me a second,
19 I'll get my calculator.

20 HEARING EXAMINER: I can figure the
21 calculations. I thought you might have that off your
22 head. I'm sorry. Please continue.

23 THE WITNESS: It's 10 or 11. I'm just
24 guessing.

25 The pie chart, as I've shown in the bottom

1 part of the graph, are the total number of wells per
2 operator. It shows that OXY is the largest operator
3 in the field, and various other proportional shares
4 shown by the other operators.

5 Q. (BY MR. KELLAHIN) Did you and the other
6 technical members of the study group examine the issue
7 of underproduction in the pool?

8 A. Yes, we did.

9 Q. What did you find when you examined that
10 issue in terms of whether the total production in the
11 pool -- what the relationship was with the pool
12 production, whether you were carrying significant
13 underproduction in certain wells in the pool?

14 A. As of the February proration schedule, the
15 fields underproduced 162,000 Mcf. And my analysis
16 indicates that a vast majority of that underage is
17 assigned to two wells. Our discussions with the
18 operators of those two wells have indicated that those
19 wells are presently producing at capacity.

20 So my conclusion is that the proration
21 system in the current form is just assigning a
22 tremendous amount of the allowable in the field to
23 wells that are incapable of making it, and that takes
24 allowable away from the other more capable nonmarginal
25 wells.

1 Q. Do you find any evidence that the
2 underproduction is directly attributable to the lack
3 of market for production from those wells?

4 A. No, sir, we do not.

5 Q. I direct your attention to Exhibit No. 6.
6 Identify and describe what you've shown here.

7 A. This is a more detailed analysis of the
8 nonmarginal wells in the field, and it shows that
9 there are eight operators that have nonmarginal wells
10 in the field and in various stages of overproduction
11 and underproduction.

12 Q. As of February 1990 proration schedule,
13 does this represent all of the nonmarginal wells in
14 the Burton Flat-Morrow Gas Pool?

15 A. Yes, it does.

16 Q. What does the information show you?

17 A. It indicates to me that there's a good bit
18 of overproduction in the pool. On the overproduced
19 nonmarginal wells, the overproduced nonmarginal wells
20 are anywhere from 1 to 6.85 times overproduced, and in
21 this pool six times overproduced is the limit. And
22 the underproduced wells shows me that there are some
23 wells that have a small amount of underproduction
24 accumulated on them, and some have a large amount of
25 allowable accumulated on them.

1 I want to point out two in particular, the
2 two largest, which are the Exxon Corporation New
3 Mexico "CW" State Com #1, which has in excess of 60
4 million Mcf underage assigned to it, and the Presidio
5 Exploration, Lee Federal #1, which has in excess of
6 75,000 Mcf assigned to it.

7 Those two wells, as I'll show on later
8 exhibits, represent a vast majority of the current
9 status of the pool, which is 162,000 underproduced.

10 Q. For OXY USA did you examine each of the
11 nonmarginal wells that were showing underproduction to
12 determine whether or not that underproduction is
13 directly attributable to lack of market?

14 A. Yes, we did.

15 Q. What conclusion?

16 A. The conclusion is that none of these wells
17 that are nonmarginal and underproduced are in that
18 state because of a lack of market demand. In a vast
19 majority of the cases, those wells are producing at
20 capacity, and the system is just working to assign
21 them more allowable than they could produce.

22 Q. Did you contact the other operators of the
23 nonmarginal wells to see whether any of their
24 underproduction is directly attributable to lack of
25 market?

1 A. Yes, we did.

2 Q. And what result?

3 A. The result is none of the underproduction
4 is attributable to lack of market.

5 Q. Have you specifically studied the wells
6 that have significant underproduction?

7 A. Yes, I have.

8 Q. Let me turn now to Exhibit No. 7. Would
9 you identify and describe what you've done there?

10 A. Yes. That's a simple pie chart that shows
11 of the total underproduction in the field or total
12 status of the field, which is 162,000, 84 percent of
13 that is reflected on two wells, the Presidio Lee
14 Federal #1, and the Exxon State #1. I'll say again
15 that we've contacted the operators of those two wells,
16 and they indicate to us that those wells are producing
17 at capacity.

18 Q. Let's turn to Exhibit No. 8. Would you
19 identify and describe that information?

20 A. Yes. This is a plot of the Presidio Lee
21 Federal #1. The upper part of the graph, the dashed
22 line, indicates the assigned allowable, and this well
23 has been classified as nonmarginal throughout this
24 whole period of time that I've shown here.

25 The dashed line shows the allowable that

1 was assigned to it on a monthly basis. The solid line
2 are the sales from this well on a monthly basis based
3 on the proration schedule.

4 And the lower graph indicates in a bar
5 chart fashion the status of this well as it has
6 changed from month to month over the same period of
7 time. It started out in January of 88 in excess of
8 100,000 Mcf overproduced, and as of most recent
9 figures we have, it is now underproduced by 75,859.

10 Q. What do you conclude from the information
11 shown on Exhibit No. 8?

12 A. I conclude that the proration system in
13 this particular case is assigning a large amount of
14 allowable to a well that, according to the operator,
15 is producing at capacity, and in this particular case,
16 this well didn't even produce for an entire year, and
17 it's produced a very insignificant amount of gas over
18 the two years that I've looked at it.

19 It's just the way the numbers have fallen
20 in this case, this well is still classified as
21 nonmarginal, and because of that, it's getting a
22 portion of the pool allowable each month that could be
23 produced by other wells in the field.

24 Q. Let's turn now to Exhibit No. 9, Mr.
25 Foppiano. Would you identify and describe that

1 display?

2 A. Yes. This is the same type of analysis as
3 I did on the Presidio well, except this was done on
4 the Exxon New Mexico "CW" State #1. Here again, the
5 operator indicates to us this well is producing at
6 capacity. And in discussing this situation with him,
7 he's also indicated that he would like to install
8 compression on this well, but that the low allowables
9 in the past have made justification of that compressor
10 installation impossible, as far as their economics
11 goes.

12 It also shows that the well has produced
13 steadily anywhere from about 6,000 Mcf a month, but
14 that the level of allowable that has been assigned to
15 it has been such that it's bounced back and forth
16 between overproduced, underproduced, but since the
17 allowable that has been administratively increased in
18 the last several months, this well has gotten a good
19 share of that allowable, and it is now 60 million
20 underproduced as of the most recent figures.

21 Q. Did you also examine the issue, Mr.
22 Foppiano, of whether or not the proration system as
23 applied to this pool was accurately and realistically
24 assigning an allowable based upon market demand for
25 production from the pool?

1 A. I'm sorry. Can you say that again?

2 Q. I'm not sure I can. Did you examine, sir,
3 the issue of whether or not the proration system
4 that's applied to the Burton Flat-Morrow Gas Pool is
5 accurately and realistically assigning allowable to
6 those wells in the pool based upon market demand?

7 A. My opinion is it's not accurately assigning
8 allowable.

9 Q. So you have examined that question?

10 A. Yes, I have examined that question.

11 Q. Have you taken that information in terms of
12 pool production versus nominations and allowables and
13 plotted any of that information?

14 A. Yes, I have.

15 Q. Can you demonstrate to us in a graphical
16 way what the nominations have been in relation to pool
17 production?

18 A. Yes, I can.

19 Q. Let's turn to Exhibit No. 10. Would you
20 identify and describe that display?

21 A. Yes. This is looking at all the proration
22 schedules since January of 1988. I've looked at the
23 pool production and the nominations by the various
24 purchasers in the pool, and I've just graphed them on
25 the same time scale.

1 What it indicates to me is that up until
2 about September of 1988, the nominations somewhat
3 tracked the production. And I say that in that when
4 the nominations went down, the production in the field
5 went down, and when the nominations went up, the
6 production in the field went up, but since September
7 of 1988, the nominations have gone down and stayed
8 low, and the production has been much higher than
9 that, and in fact our analysis indicates the
10 production would have been higher except for the
11 allowables that were set in the field.

12 This also indicates to me that the
13 pipelines that are nominating are nominating small
14 volumes and indicating to me that they are purchasing
15 small volumes. And most of the gas in the field is
16 being transported on those pipelines instead of being
17 bought by those pipelines.

18 Q. Identify for the record then what you mean
19 when you say nominations.

20 A. These are the nominations made by the
21 purchasers as shown in the proration schedule for the
22 purchase of gas. So this would be a nomination by El
23 Paso for the purchase of gas on El Paso's system.

24 Q. Can you conclude then from the information
25 that you've studied that the nominations as platted on

1 Exhibit No. 10 do not in fact represent the market
2 demand for pool production?

3 A. Yes. My opinion is the nominations do not
4 reflect market demand for the gas from this pool, but
5 they might indicate the market demand just for that
6 small party that is being nominated by the purchaser,
7 which may be just system supply or something like
8 that, and the rest of the gas that's being produced
9 out of the pool is being produced and transported on
10 these pipelines instead of bought by them.

11 Q. You cannot look then at Exhibit No. 10 and
12 conclude that you have pool deliverability for pool
13 wells that exceeds the market demand?

14 A. No, I don't think you can.

15 Q. The nominations do not accurately reflect
16 market demand for the pool production?

17 A. That is correct.

18 Q. In fact, you've concluded just the
19 opposite, have you not, Mr. Foppiano?

20 A. They do not reflect market demand for all
21 the gas from this pool.

22 Q. And that market demand for pool production
23 far exceeds the deliverability of the pool wells?

24 A. Yes, sir, in my opinion, that's true.

25 Q. Let's turn now to Exhibit No. 11. Identify

1 and describe what you've presented here.

2 A. This is an exhibit that we presented in the
3 October hearing where we're showing the pool
4 production and the pool allowable since January of 88,
5 and we also in the bottom graph show the status of the
6 field as it's changed during that same time period.

7 I want to point out of a couple of things.
8 In October of 1988, because the pool was overproduced
9 at that time, the OCD administratively adjusted the
10 allowable, and that's what caused the spike in the
11 dashed line on the upper graph. And then as a result
12 of our hearing and related OCD action, there were
13 administrative adjustments in October and November,
14 and, in my opinion, that's what's caused the allowable
15 to spike up in those two months, October and November
16 of 1989.

17 And, there again, that was made because the
18 field was also overproduced as of that time.

19 Q. When we look at the upper display and look
20 at the dashed line that shows the allowable, in your
21 opinion, does that allowable as assigned accurately
22 and correctly reflect market demand for pool
23 production?

24 A. No it does not.

25 Q. Why not?

1 A. In our analysis and investigation in this
2 pool, there's a market demand for all the gas that is
3 capable of being produced from this pool. And the
4 allowable we see is going back down, and it's going
5 back down because there are no more administrative
6 adjustments being made, and I think it's going back
7 down because the way the system is operating to assign
8 allowables to wells incapable of making it.

9 So with that information, it's my opinion
10 that the pool allowable does not accurately reflect
11 the market demand of gas from this pool.

12 Q. When we look at the October plot for 89,
13 and you're at the top of the spike for the allowable,
14 that's the point in time that the Division put the
15 administrative adjustment of additional allowable for
16 the pool?

17 A. That's correct.

18 Q. Why does that allowable start to fall and
19 then decline rapidly later in the year?

20 A. They made a lesser adjustment in November,
21 and they made no adjustment in the December schedule;
22 so I think that's part of why it drops.

23 Also, the production from the wells, from
24 some of these wells, are still being curtailed because
25 the allowable is not high enough during those months

1 to allow us to produce it. As we've seen on a
2 previous exhibit, there are some wells in the field
3 that are close, and in one case over six times
4 overproduced still.

5 Q. Have you examined other issues with regards
6 to prorating to see whether or not there is a
7 justification for continuing prorating in the pool
8 because of the existence of nonstandard proration
9 units?

10 A. Yes, I've examined that.

11 Q. Have you reduced that information to a
12 display?

13 A. Yes.

14 Q. Let me direct your attention to Exhibit No.
15 12. Is that the information?

16 A. Yes. Based on the February 1990 proration
17 schedule, this is a depiction of the nonstandard
18 proration units in the pool. And as shown, there are
19 six of them. That represents 10 percent of the total
20 units in the pool, and all but one are low capacity,
21 marginal wells. The only nonmarginal nonstandard unit
22 is underproduced; yet our information indicates it's
23 producing at capacity also.

24 So my conclusion is that prorating is
25 not needed to adjust equities between the standard and

1 nonstandard proration units in this pool.

2 Q. Turn to Exhibit No. 13. What have you
3 shown here, Mr. Foppiano?

4 A. What I'm showing here is a summary of the
5 next 18 pages. What we did is we went to all the
6 operators in the pool, the operators of marginal and
7 nonmarginal wells, and asked them to waive any protest
8 to determining prorationing in this pool if that was
9 their opinion, determined if prorationing should be
10 terminated.

11 I'm showing, as of today, I have 97 percent
12 on a well basis of the operators in wells in the pool
13 have waived protest to our application to terminate
14 prorationing.

15 Q. These would include operators of marginal
16 wells as well as nonmarginal wells?

17 A. Yes. In fact, it was kind of interesting,
18 in talking with several of the operators who had only
19 marginal wells, there was a lot of support for
20 terminating prorationing from the operators of the
21 marginal wells because of the justification for
22 compression installation and reworking those wells,
23 and doing things and spending money to improve the
24 deliverability on those wells. They felt like that
25 the level of nonmarginal allowable in the pool was so

1 low that economically justifying that work on the
2 marginal wells was tough if not impossible to do.

3 So there was a lot of support from the
4 operators of the marginal wells in addition to the
5 nonmarginal wells.

6 Q. Why wouldn't the operators of marginal
7 wells want the continuation of prorationing where they
8 could thereby apply a cap to the higher capacity wells
9 and keep their producing rates down?

10 A. Well, in discussion with several of them,
11 the opinion is that there's very limited drainage
12 capabilities here in this pool, that they're not
13 worried that the nonmarginal wells that are offsetting
14 their wells are going to drain their well or adversely
15 affect it in any way.

16 They also believe there's a market for all
17 the gas that they can sell, and they want to do more
18 work in this field. They want to drill some wells,
19 they want to install compression, they want to rework
20 these wells, and the low allowables in the past have
21 precluded them from doing this.

22 Q. When did you first contacting the operators
23 about the performance of prorationing in the Burton
24 Flat Morrow?

25 A. As early as, I would say, July or August of

1 1989 and continually since then.

2 Q. During that entire process all the way up
3 to today, have you had anyone voice an objection to
4 terminating prorationing in the Burton Flat-Morrow Gas
5 Pool?

6 A. No, I have not. In fact, I have had
7 several voice strong support for it.

8 Q. When we look at those parties that have not
9 signed waivers, would you tell the Examiner what the
10 status is of your efforts to inform those particular
11 operators and obtain their waivers?

12 A. Yes. I'd like to point out one thing.
13 I've shown Coquina under the column of "Have Not
14 Signed Waivers." Late yesterday, we received a waiver
15 from Coquina; so they have in fact waived any protest
16 in this. That's where I get the 97 percent instead of
17 the 95.

18 The J. M. Huber, I had a lot of difficulty
19 getting in touch were somebody that knew anything
20 about J. M. Huber's operations. When I finally did, a
21 couple of weeks ago, they informed me that they sold
22 that well to Bill H. Pearl Production Company, and my
23 attempts to get ahold of Bill H. Pearl Production
24 Company met with no success.

25 Texas International, I've heard from

1 knowledgeable people that they have gone bankrupt, and
2 I have been unable to get ahold of anybody from Texas
3 International.

4 The point is, I guess, the reason why I
5 don't have waivers from those two individuals is, I
6 think, more logistic than anything else. I don't
7 think there is any protest on their part or any desire
8 not to do what we want to do.

9 Q. Let me ask you to skip now to the end of
10 the exhibit book, Mr. Foppiano, and if you'll find the
11 last of the fold-out displays, which is marked as OXY
12 Exhibit No. 30?

13 A. Yes, I have it.

14 Q. When we talk about your efforts to contact
15 the operators and the interest owners within this
16 area, have you developed a map and an index by which
17 the Examiner, if he desires, may determine what
18 interest owners have been notified, and where their
19 interests may lie in the pool?

20 A. Yes, I have.

21 Q. Describe for us then what you've done with
22 Exhibit No. 30.

23 A. Exhibit No. 30 is an identical field
24 outline to Exhibit No. 1. What we've done is break
25 the field down into tracts. We had several land

1 people research the records to identify the lessees
2 and unleased mineral interest owners in each of those
3 nonproducing units in this pool. And, of course, we
4 already knew the operators, but we also had them look
5 at that.

6 So this analysis was mainly an attempt to
7 identify the lessees and unleased mineral interest
8 owners within the field limits. And this depiction
9 shows the individual tracts, and along with the next
10 exhibit, identifies each of these parties that we gave
11 notice to.

12 Q. When we turn to Exhibit 31 then, that is
13 the list by tract of the interest owners?

14 A. That's correct.

15 Q. When we go to Exhibit No. 32, which is the
16 last three pages in the book, what are we looking at
17 there?

18 A. Exhibit No. 32 is a list of the operators
19 of wells in the Burton Flats-Morrow Field, and within
20 one mile of the field limits. We developed this list
21 also for notice purposes of this application.

22 Q. When you look at the very last page in the
23 exhibit book, what is shown there?

24 A. This is based on our research and the OCD
25 records, the known nominators, purchasers, and

1 transporters of gas from the Burton Flats-Morrow Pool.

2 Q. From all these lists then did you generate
3 a mailing list for notice purposes that you provided
4 to us for sending out copies of the application and
5 notice of the hearing today?

6 A. That's correct.

7 Q. Have you examined that list to satisfy
8 yourself that it's accurate to the best of your
9 knowledge?

10 A. Yes, I have.

11 Q. Let me show you what is marked as Exhibit
12 No. 33, Mr. Foppiano, and ask you to turn to a copy of
13 the attachment to the application and have you tell me
14 whether or not this represents the list that you have
15 provided to us for notification purposes?

16 A. (Witness referred to document.)

17 Yes, I believe it's the same list.

18 MR. KELLAHIN: Mr. Examiner, Exhibit No. 33
19 is our Certificate of Mailing. We have attached to
20 the end of it, in addition to the application and the
21 notice list, the copies of the green return receipt
22 cards that have been returned to us thus far. There
23 are still some that are outstanding, but these are all
24 that we have received as of yesterday.

25 MR. STOVALL: Mr. Examiner, I'd like to

1 interrupt the proceeding at this point and turn to
2 Exhibit No. 31.

3 Under Tract No. 6, there appears an
4 interest of Harvard and LeMay Exploration Company.
5 I'd like to point out to the Examiner and to OXY that
6 Harvard and LeMay Exploration Company is what's left
7 of a partnership in which Mr. Bill LeMay, the Director
8 of this Division, was involved.

9 I've discussed this with him on previous
10 occasions, and at the time this application was filed,
11 reviewed it with him. Mr. LeMay still has at least a
12 nominal interest in Harvard and LeMay. He receives
13 absolutely no income, has absolutely no ownership or
14 active participation in it, and, in fact, he is and
15 has been for the last three years or longer actively
16 engaged in trying to dispose of any interest he has in
17 this partnership.

18 I think it's important that you be aware
19 that at least nominally Mr. LeMay does have some small
20 interest. And I believe it's a small mineral interest
21 that that partnership may own. I'm not exactly
22 accurate.

23 But at this time, having made that
24 statement on the record, I would offer to OXY and Mr.
25 Kellahin, if you have any concerns with that at all,

1 Mr. LeMay will be more than happy to recuse himself
2 and may do so whether you wish or not and have the
3 Deputy Director sign the order.

4 Do you have any feelings on that?

5 MR. KELLAHIN: Mr. Stovall, I think his
6 interest is so small and so abstract in relation to
7 the issue here, that I can't perceive it as being a
8 conflict of interest for him, and we certainly have no
9 objection to him reviewing and executing the order to
10 be entered. We don't propose to assert any conflict
11 because of his ownership of a small interest in a
12 portion of a tract that is involved in the pool.

13 MR. STOVALL: I certainly want it to be
14 clear on the record though that does exist, and I'll
15 discuss it with him after the hearing as to whether he
16 wishes to do so on his own initiative.

17 I have nothing further on that issue.

18 MR. KELLAHIN: Okay.

19 Q. Let me take you back now, Mr. Foppiano, to
20 Exhibit No. 14. As a result of your study and the
21 studies of the other technical people that assist you
22 in the performance of this work, would you summarize
23 for us what your conclusions are and recommendations
24 to the Examiner?

25 A. Yes. My conclusions are, number one, that

1 in the interest of conservation, prorationing should
2 be terminated in this pool. And I've outlined some
3 reasons why I think this should be done, and I'll go
4 through them.

5 First, I think it will prevent waste
6 because it removes what I consider and other operators
7 consider to be a disincentive to drilling new wells,
8 reworking old wells, and doing other things that will
9 increase the ultimate recovery of gas from this pool.

10 I don't believe that correlative rights
11 will be adversely affected by the granting of this
12 application, and I say this because our analysis
13 indicates market demand exceeds the pool
14 deliverability. The nonmarginal wells have limited
15 drainage areas, and you'll see some more testimony and
16 exhibits on this. The few nonstandard proration units
17 that are in the field are mostly marginal. So as far
18 as receiving a benefit from termination of
19 prorationing, they won't be able to produce any more
20 than they're producing right now, in my opinion.

21 And there is but one multiple well unit in
22 this pool. OXY has an interest in it, and OXY has
23 received an AFE from the operator to plug and abandon
24 one of those multiple wells in that unit; so I don't
25 think multiple well units in this pool are a problem,

1 as far as prorating goes.

2 In my opinion, the potential for nonratable
3 takes by the pipelines no longer exists because the
4 marketing of gas has changed dramatically in this pool
5 where the pipelines are not buying very much of the
6 gas that is produced here. They're transporting the
7 gas, and the operators are, a lot of them, through
8 their own methods, are selling their gas to the spot
9 market. So the takes by the pipelines and the
10 purchases by the pipelines I don't think are an issue
11 as far as will they be nonratable if we terminate
12 prorating.

13 And, lastly, most of the pool operators, as
14 I've shown you, 97 percent have waived any protest to
15 this application, and none have indicated any
16 objection to us. And, in fact, in my discussions with
17 many of them, there are a lot that support our
18 application to terminate prorating in this pool.

19 MR. KELLAHIN: That concludes my
20 examination of Mr. Foppiano, Mr. Examiner.

21 We would move introduction of his Exhibits
22 1 through 14 plus the plat 30 and the tabulation of
23 interest owners, 31 and 32.

24 HEARING EXAMINER: Exhibits 1 through 14
25 and Exhibits 30, 31, and 32 will be admitted into

1 evidence at this time.

2 MR. KELLAHIN: In addition, we would move
3 the introduction of our Certificate of Mailing, which
4 I believe is Exhibit 33.

5 HEARING EXAMINER: Also Exhibit 33 will be
6 admitted into evidence at this time.

7 CROSS EXAMINATION

8 BY HEARING EXAMINER:

9 Q. Mr. Foppiano, what is the current
10 production as of January -- I'm sorry -- as of the
11 latest proration schedule month reported, and I
12 believe, what, would that be November or December?

13 A. It would be December.

14 Q. What was December's total production from
15 the pool? And do you want to refer to -- it's
16 probably in one of your exhibits.

17 A. I've got exactly in a tabular form right
18 here.

19 In December the pool produced on OCD
20 records 540,874 Mcf, but I'd like to point out that
21 we're aware that number is inaccurate. It is, in
22 fact, 89,000 less than that because, through some
23 unknown reason, 89,000 Mcf was assigned as production
24 on one of our wells that did not produce it. So the
25 pool production is 89,000 Mcf less than that.

1 And my exhibits reflect what we know to be
2 the actual production; so I've corrected my exhibits
3 for that.

4 Q. So basically it's about 460,000 Mcf?

5 A. About 450, yes, sir.

6 MR. KELLAHIN: That's on a monthly basis?

7 THE WITNESS: On a monthly basis.

8 Q. (BY HEARING EXAMINER) Let's just look at
9 this figure in December. December is normally, in
10 this particular pool, the production goes up, I would
11 assume, because it's in the wintertime? Would that
12 hold true for this particular pool?

13 A. I think in this case the production has
14 gone up partially because of the administrative
15 adjustments that have been made in this pool. Also, I
16 think there is more desire to sell as much gas as you
17 can in the wintertime because the prices are higher
18 than in the summertime; so there are operators who let
19 their wells ride, I think, through the summertime to
20 accumulate allowable, and then open them up in the
21 wintertime, and in some cases get them six times
22 overproduced.

23 Q. Does OXY partake in this practice?

24 A. No, OXY does not partake in this practice.

25 Q. Who does?

1 A. My research has indicated one operator,
2 Fasken; they were overproduced in the winter of 88 and
3 89 on several of their wells. The production on their
4 wells increased dramatically during those winter
5 months.

6 During the summer months, their production
7 declined. And when we inquired of them as to why
8 their production declined, they indicated they were
9 trying to make up the overproduction that had
10 accumulated during the wintertime when they were
11 producing as much as they could. And they didn't want
12 to go into the next wintertime overproduced.

13 So, in my opinion, their production was
14 lower because of the allowables in the pool. We asked
15 them, "Is there any market curtailment here?" They
16 indicated no. They could sell as much gas as they
17 wanted to, but they chose to shut their compressors
18 down, cut the cost, and try to make up that
19 overproduction so they didn't go into the next
20 wintertime massively overproduced and not produce as
21 much as they wanted to.

22 Q. Let's take a look at this December figure.
23 I'm using this for a purpose at this point. Of this
24 460,000 production, were there any curtailments -- I'm
25 sorry; let me rephrase that.

1 Did any of the 11 pipelines -- were there
2 11 pipelines in here?

3 A. That's correct.

4 Q. I guess I should say 11 transporters
5 because the pipelines, sometimes they double up, like
6 El Paso and Llano have a separate transportation line;
7 so we'll just say transporters, and we will refer to
8 the 11 which you show on your Exhibit 3.

9 Were they able to take all of the gas?

10 A. My research in talking with the other
11 operators was yes, they were able to produce as much
12 gas as they wanted to in December of 1989.

13 Q. And the pipelines had no trouble taking it?

14 A. Not to my knowledge, they had no trouble.

15 Q. Have you studied or do you have another
16 witness that would perhaps give us some figures of if
17 prorationing was lifted in this particular pool, what
18 would our figures from this pool be in December or
19 would have been in December?

20 A. Yes, we have another witness that will
21 discuss what we think the most optimistic number of
22 pool deliverability is absent proration.

23 Q. Okay.

24 A. Another thing I'd like to point out, and we
25 have another witness that will discuss this in more

1 detail, is, since the allowable was increased, OXY and
2 other operators have done work in the field to
3 increase the pool deliverability; so it keeps marching
4 up. There has been a lot of compression installed on
5 OXY's part. We've reworked some wells. We have a
6 well drilling. As I've said, other operators have
7 indicated they've started to do some work, but some
8 have indicated they won't until they see a lot longer
9 -- if that's possible, until they can see a lot longer
10 of the higher allowables.

11 HEARING EXAMINER: Mr. Kellahin, we're
12 going to recess for about 15 minutes at this point.

13 MR. KELLAHIN: Sure.

14 (Thereupon, a recess was taken.)

15 HEARING EXAMINER: This hearing will come
16 to order.

17 Mr. Stovall, I believe you had some
18 questions.

19 MR. STOVALL: I do, just a few questions,
20 Mr. Foppiano.

21 CROSS-EXAMINATION

22 BY MR. STOVALL:

23 Q. Is there much changing about the status of
24 wells from marginal to nonmarginal? Did you see much
25 flip-flopping at all, particularly before the

1 administrative changes were made to the marginal/
2 nonmarginal reclassification procedure?

3 A. There were very few that were reclassified
4 as a result of the new rule that was instituted in the
5 latter part of 89. I've looked at the marginal and
6 nonmarginal well classifications on a two-year basis,
7 and I see a trend, but I don't see them changing
8 dramatically from month to month.

9 Q. Is the trend toward more wells going
10 marginal; is that --

11 A. The trend is more wells going marginal.

12 Q. Is the effect of that trend that the
13 allowable will be distributed amongst fewer wells; is
14 that correct?

15 A. This is correct.

16 Q. One of your great concerns, if I understand
17 what you're saying, is there are too many nonmarginal
18 wells that can't produce an allowable that are in fact
19 holding back the production from other nonmarginal
20 wells that can be produced?

21 A. Yes, sir, that is one of our concerns.

22 Q. If that trend were to continue, have you
23 done any studies or analysis that would show that if,
24 let's say these underproduced wells that you've
25 identified, if they moved into a marginal status, what

1 would the effect be -- let me explain this in terms of
2 what we've seen in other situations.

3 As the number of nonmarginal wells
4 decreases, the allowable per well increases, and fewer
5 wells are able to meet that allowable, and therefore
6 it becomes kind of a spiral in that direction. Have
7 you done any analysis to see how that could work over
8 a period of time?

9 A. Yes, I have. My opinion is you're
10 correct. Given a constant amount of pool allowable,
11 because you would be distributing over fewer wells,
12 those fewer wells would enjoy a larger allowable. The
13 problem we see here is that that does not work fast
14 enough.

15 We are, as of the present day, and other
16 operators are already curtailing their production
17 because of the low allowables that have been assigned
18 in the past. That curtailment of production will
19 cause lower allowables in the future, and, in my
20 opinion, that's what causes the spiral effect and
21 drives the allowable down. As the allowable starts
22 dropping, more wells get closer to the six times
23 limit; they start getting curtailed; that drops the
24 future allowable. And I think that just points to one
25 of the problems with the current system in how it sets

1 or how it estimates market demand and prorates it
2 according to the wells in the field.

3 I just think that it doesn't act fast
4 enough, and wells are getting curtailed before there's
5 a chance to keep the pool allowable up high enough.

6 Q. What I'm looking at at the moment is
7 considering alternatives to what you're asking, the
8 deproration of the pool. If, for example, looking at
9 your Exhibit 6, let's take the big three underproduced
10 wells, not just the two you identified, but add to
11 that the BHP, Burton Flat Deep Unit No. 56, which is
12 58,000 underproduced. Is that underproduction
13 accumulated over a period of time? Has it been, do
14 you know?

15 A. Yes, it has.

16 Q. So it's not like one spike in downward
17 production on those wells that's created that, but
18 rather a trend showing an inability to produce the
19 allowable?

20 A. It's a trend, but I think, particularly if
21 you'll look at Exhibit No. 9, you'll see that a large
22 portion of that underage accumulated in recent months
23 when the allowable was administratively increased.

24 So, yes, it is a trend, but when the
25 allowable gets real high, it serves to take a large

1 portion of that higher allowable and give it to those
2 wells, and it can't be redistributed fast enough
3 through the classification procedure to go to those
4 wells that are capable of meeting the market demand,
5 and are in fact trying to meet the market demand.

6 Q. Could that be corrected, do you think, if
7 the operators approached the Division or if the
8 Division could administratively reclassify those wells
9 marginal more rapidly than the automatic system does
10 to put them into marginal status and allow that
11 allowable to go to the nonmarginal wells? Would that
12 help?

13 A. That would help, yes.

14 Q. What about, I notice OXY has not asked that
15 the February allowable or the March allowable be
16 administratively increased in the same way as the
17 November and December applications. If that were to
18 happen, if those allowables were to be increased,
19 let's say for the future, would that also provide any
20 assistance in redistributing the allowable properly by
21 keeping it high enough?

22 A. It would. And my concern there is that it
23 addresses the problem on a short-term and a continual,
24 like us having to come back and ask for a larger
25 allowable -- it would be an ongoing type, short-term

1 process. And in our discussions with the operators,
2 they desire a more long-term solution to this problem,
3 one that provides them enough of a comfortable factor
4 in justifying drilling new wells, in particular.

5 When you're looking at pay-out periods of
6 two to three years of drilling a Morrow well here,
7 these operators, including ourselves, would like some
8 comfort that they can sell this gas that they're going
9 to produce from these wells and get the well paid --
10 get payback on the well. It's an economic venture.

11 I don't think that continually coming back
12 and asking for the allowable to be administratively
13 increased and relying on that is going to do a whole
14 lot to generate the activity that I think is possible
15 in this field to increase the ultimate recovery of
16 reserves.

17 Q. Even if, let's say, we did that for a
18 period of one cycle, are you saying in some way, keep
19 the higher allowables and allow the process to
20 reclassify as marginal more and more wells, you don't
21 think that would ultimately provide a solution over a
22 period of a year, say?

23 A. No. It would help, but I think in terms of
24 drilling new wells, and I'll use our own experience as
25 an example, we're looking at, if we were allowed to

1 produce what we think the wells are capable of
2 producing, it takes two years to pay back the
3 investment.

4 And management, when they're looking at the
5 risk of drilling the well, and there's an additional
6 risk of curtailment should the OCD change their mind
7 or some other factor work in here where the allowable
8 would prevent us from selling the gas from a new well,
9 I think management would be real concerned about that
10 risk and may not approve the drilling of a new well in
11 the field.

12 I think other operators have the same
13 concern. They would just like a more long-term
14 solution. And I think years is what we're having to
15 look at in terms of drilling new wells.

16 I'd also like to add that our analysis
17 indicates that not very many wells have been added to
18 this pool in the last five years, and as a result of
19 the higher allowables in the last several months, OXY
20 has commenced the drilling of one well, the Government
21 AB 5. I believe it's close to TD. We have two wells
22 planned for 1990 that hinge upon the action taken
23 here.

24 And I think that in our discussions with
25 other operators, that is indicative of the type of

1 activity that other operators with like to see too,
2 but they need the higher allowables for a longer
3 period of time to be able to justify it. And
4 termination of proration would make them feel a lot
5 more comfortable about it. It would make us feel a
6 lot more comfortable about it too.

7 Q. If I understood what you said before, you
8 do have a witness who could testify as to the
9 potential productive capacity of this field, and I
10 would hope also in terms of the ability of the
11 physical pipelines that are in the field to move the
12 gas out to the market?

13 A. Yes, we do have an additional witness.

14 Q. Let's turn briefly to Exhibit No. 10. It's
15 your nominations versus production.

16 A. Yes.

17 Q. Do you know what role nominations play in
18 the allowable system today?

19 A. Yes, I do.

20 Q. What is that role?

21 A. None at all.

22 Q. So this exhibit really isn't very helpful
23 in terms of your application or the role of those --

24 A. We have another witness that will testify
25 in more detail about this, but it backs up our

1 assertion that the pipelines are mostly transporting
2 gas out of this field. We have contacted the
3 pipelines in this field and inquired as to their
4 marketing practices and how much they're buying for
5 system supply versus how much they're transporting.

6 I think this pretty well falls in line with
7 that independent research from the pipelines.

8 Q. Are you familiar with the actual order that
9 comes out with the proration schedule?

10 A. Yes, I am.

11 Q. Would you look at paragraph 4 of that,
12 please.

13 A. What month?

14 Q. It doesn't matter. I happen to have
15 February here.

16 A. I've got February also. Okay, the
17 conditions in the gas market.

18 Q. Paragraph 4 of the findings, excuse me.

19 A. Okay.

20 Q. Is that not what the order says, that in
21 fact the nominations don't really reflect the reality?

22 A. And I believe we've testified that the
23 nominations do not reflect the total market demand of
24 gas from this pool.

25 MR. STOVALL: I don't have anything further

1 at this time. As we develop more evidence, we may
2 desire to call Mr. Foppiano back.

3 If I understand your capacity in this with
4 OXY -- I do have one other question -- your capacity
5 with OXY is such that after we've heard all the
6 testimony, you're kind of overseeing this deprorating
7 project on behalf of OXY; is that correct?

8 THE WITNESS: You could look at it like
9 that, yes.

10 Q. A curiosity question, are you familiar with
11 Order R-7982? It's the Fasken application for
12 termination?

13 A. Yes, I am.

14 Q. Do you know what Cities Service position
15 was at that time?

16 A. Yes, I do. We protested that application.

17 Q. Does this current application reflect a
18 change in position or some other change?

19 A. It reflects a change in position because of
20 a change in circumstances. During that time, as you
21 know, OXY is the largest operator in the pool, we were
22 curtailed by El Paso and not able to market all of our
23 gas from our wells in the pool. Hence we protested
24 the application to terminate proration.

25 Since that time, we have gotten our gas

1 released from El Paso, and we have the ability to
2 market as much gas as we want to out of this pool. In
3 fact, we try to market as much gas as we can; so
4 conditions have changed dramatically for us.

5 MR. STOVALL: Now I really am through.

6 CROSS-EXAMINATION

7 -CONTINUED-

8 BY HEARING EXAMINER:

9 Q. In referring to Exhibit No. 14, Mr.
10 Foppiano, you list something in there -- it's titled,
11 "Let's Terminate Prorationing Because it will prevent
12 waste by removing a major disincentive for drilling
13 new wells."

14 Do you want to elaborate a little bit on
15 this on OXY's standpoint?

16 A. Sure. Drilling of new wells, we have some
17 economics; they're included in a later exhibit, and a
18 witness will present them. But basically they show
19 under a proration scenario, it's uneconomical to drill
20 a well in this pool. The pay-back period is too long,
21 and in fact it has a discounted cash flow of
22 negative. In terms of providing an economic
23 incentive, continued proration doesn't do it.

24 Reworking old wells, much the same
25 situation but a little bit different. The level of

1 nonmarginal allowable is what has really caused the
2 problem there. When you have a well that is a 100,
3 200 Mcf-a-day producer, and you can rework it, you
4 think, to increase the deliverability up to a million
5 a day, and the nonmarginal allowable is at 150 or 200
6 Mcf a day, our management will not approve projects
7 that require a capital outlay up front when we don't
8 think we can sell the gas and recoup our investment if
9 the workover is successful.

10 The same is true for compression
11 installation.

12 Q. Let's talk about drilling and reworking at
13 this point.

14 A. Okay.

15 Q. How many wells has OXY proposed within the
16 last year or reworked within the last year that have
17 been turned down because of this?

18 MR. STOVALL: Excuse me, Mr. Examiner, if I
19 may interrupt at this time, since you've asked that
20 question, I was going to do this when you were
21 through, but I would like to -- the Director just
22 handed me a letter which he received from Mr.
23 Foppiano. Mr. Kellahin, he has asked we get this into
24 the record, and I believe it addresses the Examiner's
25 question.

1 If you would identify that letter, Mr.
2 Foppiano -- if you don't mind, we'll call it an OXY
3 exhibit. Mr. Kellahin?

4 MR. KELLAHIN: I have no objection once the
5 witness looks at the letter.

6 THE WITNESS: Yes. This is a letter I
7 wrote to Mr. LeMay. It basically detailed the
8 activity that OXY has performed in the field since the
9 allowable was administratively increased in October.

10 Prior to that time, we did very little
11 activity, and I can't offhand tell you the number of
12 projects that were turned down because they never got
13 to an AFE stage. The engineer wasn't going to look at
14 these projects because of the low allowables in this
15 pool. Since the allowables have been increased, the
16 engineers have been given the incentive to look at
17 these type of activities, and this letter, I think,
18 details it, and I'll just read from it.

19 MR. KELLAHIN: We can mark it, if that's
20 all right.

21 MR. STOVALL: We can mark it. You don't
22 need to read it.

23 Q. (BY HEARING EXAMINER) How many undrilled
24 fracs does OXY have within this pool and within a mile
25 of it?

1 A. I apologize. I can't answer that question.

2 Q. You talk about reworking old wells. How
3 many wells does OXY have?

4 A. We operate, I believe, 18 wells in the
5 pool.

6 Q. Has OXY reworked any of these old wells
7 within the last year?

8 A. Yes, they have. It's on that exhibit.

9 Q. On this Exhibit 34 which I've just been
10 handed?

11 A. Yes.

12 HEARING EXAMINER: Mr. Kellahin, should we
13 introduce Exhibit 34 at this time?

14 MR. KELLAHIN: Absolutely, Mr. Examiner.

15 HEARING EXAMINER: Exhibit 34 will be
16 admitted into evidence. There's no further questions
17 I have of this witness at this time. We may recall
18 him later.

19 MR. KELLAHIN: I have a couple of follow-up
20 questions, Mr. Examiner.

21 HEARING EXAMINER: Okay.

22 REDIRECT EXAMINATION

23 BY MR. KELLAHIN:

24 Q. In response to Mr. Stovall's questions
25 concerning other possible solutions, Mr. Foppiano, you

1 discussed with Mr. Stovall whether or not a more rapid
2 reclassification of wells to a marginal status would
3 help, and you said it would help. Is that an
4 effective solution to the problem that you see in the
5 pool?

6 A. In my opinion, no.

7 Q. What, in your opinion, is the most
8 effective solution for the problems created by the
9 prorationing system?

10 A. In my opinion, the most effective solution
11 would be to terminate prorationing.

12 Q. Why should we not simply suspend it or
13 temporarily abandon it for a year?

14 A. It goes to the economics of some of this
15 work that can be done in the field. Operators need to
16 feel more comfortable about a long-term ability to
17 sell the gas that they get from a new well drilled in
18 the pool absent allowable restrictions.

19 Q. When was the last well drilled in the pool?

20 A. Can I take five seconds to --

21 Q. Sure.

22 A. Our information is the last well drilled in
23 the pool was in 1983.

24 MR. KELLAHIN: No further questions.

25 RECROSS EXAMINATION

1 BY HEARING EXAMINER:

2 Q. How about your Government AB Well #5?

3 A. That is currently drilling. It has not
4 been completed in the pool yet.

5 Q. Are there any other wells between 1985 and
6 now that have been drilled but not completed in that
7 pool?

8 A. I'm sure there are. There are wells that
9 have been drilled for other producing horizons in that
10 pool.

11 Q. Is your Government AB 5, is that for the
12 Morrow or for another pool?

13 A. That is for the Morrow.

14 Q. I'm going to ask my question again. Are
15 there any wells down to the Morrow, not for any other
16 pool, but specifically went down to the Morrow that
17 have not been completed in the Morrow yet?

18 A. Perhaps I don't understand the question.
19 If you're referring to dry holes --

20 Q. Explain to me your "AB" #5. What's going
21 on? You drilled it to the Morrow?

22 A. That's correct. We are drilling it to the
23 Morrow.

24 Q. When did you start drilling it?

25 A. Latter part of 89. I don't have an exact

1 date.

2 Q. So it should be -- is it cable tooled?

3 A. No, sir.

4 Q. So you're down to the Morrow; right?

5 A. We're coring.

6 Q. You're down to the Morrow?

7 A. We're down to the Morrow.

8 Q. You're still testing it?

9 A. Correct.

10 Q. You haven't completed it yet?

11 A. That's correct. I don't even believe we
12 set pipe on it yet.

13 Q. Have there been any other wells between
14 1983 and today that specifically were drilled down to
15 the Morrow that are still waiting some sort of a
16 pipeline hookup, or that are still testing, such as
17 your "AB" 5?

18 A. Not that I'm aware of.

19 HEARING EXAMINER: Okay. No other
20 questions at this time.

21 Mr. Kellahin?

22 MR. KELLAHIN: Nothing else. Thank you.

23 Mr. Examiner?

24 HEARING EXAMINER: Yes, Mr. Kellahin.

25 MR. KELLAHIN: At this time, Mr. Examiner,

1 I'd like to call Michael Dawson. Mr. Dawson is a gas
2 marketer with expertise in this particular pool on
3 behalf of his company.

4 MICHAEL DAWSON,
5 the witness herein, after having been first duly sworn
6 upon his oath, was examined and testified as follows:

7 DIRECT EXAMINATION

8 BY KELLAHIN:

9 Q. Mr. Dawson, for the record, would you
10 please state your name and occupation.

11 A. My name is Michael Dawson. I'm a sales
12 representative for the natural gas market with OXY
13 USA.

14 Q. Would you describe what you do in relation
15 to your company's business in the Burton Flat-Morrow
16 Gas Pool?

17 A. I'm responsible for identifying markets for
18 gas and securing contracts for the sale of that gas.

19 Q. For gas produced out of this particular
20 pool?

21 A. For gas produced out of.

22 Q. How long have you performed that function
23 for your company, Mr. Dawson?

24 A. Since 1981.

25 Q. Have your engineers and technical personnel

1 provided you with some reservoir or pool capacity or
2 deliverability numbers?

3 A. Yes, they have.

4 Q. For your company as well as what they
5 estimate for the pool deliverability of all wells in
6 the pool?

7 A. Yes, they have.

8 Q. Have you made a study to determine whether
9 or not in your opinion you can market that gas
10 produced?

11 A. Yes, I have.

12 Q. Have you also made a study to understand
13 whether or not there is any seasonal fluctuation and
14 the range of that fluctuation in terms of gas market
15 for the gas produced from this pool?

16 A. Yes, I have.

17 MR. KELLAHIN: At this time, Mr. Examiner,
18 we tender Mr. Dawson as an expert gas marketer.

19 HEARING EXAMINER: Mr. Dawson is so
20 qualified.

21 Q. (BY MR. KELLAHIN) Give us some background,
22 Mr. Dawson, in a general way, about what is done with
23 the gas produced out of the Burton Flat-Morrow Gas
24 Pool. Where does it go, and who consumes it?

25 A. In general, the gas that's produced from

1 the pool is transported out of the pool, primarily by
2 interstate pipelines to various markets. There are
3 also intrastate pipelines which transport gas out of
4 the pool. Historically, those pipelines have been
5 purchasers of the gas to date. They are mostly
6 transporting the gas to other markets, and the gas can
7 be sold to a variety of markets that are accessible
8 through those pipelines.

9 Q. In the current market conditions for the
10 gas produced from the pool, who is the ultimate
11 consumer of the gas produced? Where does it go?
12 Where is the end market?

13 A. The end markets vary. They are utilities
14 and brokerage companies and industrial installations,
15 a variety of different markets available.

16 Q. Let me ask you to go to what is marked as
17 OXY Exhibit No. 15. Are you familiar with this
18 display?

19 A. Yes, I am.

20 Q. Would you identify and describe the
21 information on the display?

22 A. Okay. The portion which is colored green
23 identifies the production from the pool for years 1988
24 and 1989.

25 The red portion of the exhibit shows OXY's

1 production from the pool for the same period of time.
2 And it shows how our gas was produced in relation to
3 production from the overall pool.

4 Q. Compare for me, if you will, sir, the
5 relationship of the gas production from the pool
6 during this period of time to the market demand for
7 that gas.

8 A. Okay. The market demand for that period of
9 time did change, and it is reflected in our
10 production.

11 As you can see, during the period 1988, up
12 until September, there was limited production by OXY
13 from the pool. And after that period of time, the
14 production increased significantly. What that
15 reflected was was the fact, as I believe Mr. Foppiano
16 alluded to this earlier, that historically we have had
17 sales arrangements primarily with El Paso Natural Gas
18 Company, and we were subject to whatever their
19 limitations were in terms of taking gas. And after
20 that gas was released from El Paso from our contracts
21 with El Paso, toward the end of 1988, we began to be
22 able to sell our gas virtually at capacity, whatever
23 was available.

24 Q. What have the engineers provided you in
25 terms of a total capacity or a total deliverability of

1 gas that can be produced by the existing wells out of
2 the pool?

3 A. For the entire pool?

4 Q. Yes, sir.

5 A. 600 million cubic feet per month.

6 Q. What portion of that volume is represented
7 by OXY's deliverability or capacity of their wells?

8 A. OXY's deliverability would be a little less
9 than half of that. On a daily rate, that would
10 represent about 20 million cubic feet per day, I
11 think, and OXY's would be somewhere in the range of 9
12 to 10 million cubic feet per day.

13 Q. Let's examine OXY's portion of the total
14 pool deliverability. On a monthly basis, OXY's share
15 of the pool deliverability is what volume, sir?

16 A. On a monthly basis?

17 Q. Yes, sir.

18 A. A little less than 300 million cubic feet
19 per month.

20 Q. If the engineers tell you that for the
21 OXY's wells that represents the total capacity of
22 those wells to produce, in your opinion can you market
23 that volume of gas?

24 A. Yes, sir, I can.

25 Q. What volume of gas have you actually been

1 marketing?

2 A. I have been marketing the total
3 deliverability of 300.

4 Q. Do you have a market demand that exceeds
5 the total deliverability of OXY's wells?

6 A. Yes, sir, I do.

7 Q. Is that subject to seasonal adjustments to
8 the extent that you will have pool deliverability that
9 exceeds the market demand that you've identified for
10 that production?

11 A. No, sir, in my opinion, it will not.

12 Q. Why?

13 A. And I would like to refer back to the
14 exhibit. You will see that for 1988, during the
15 period of time that we were selling gas primarily to
16 El Paso was the last period that we had that seasonal
17 fluctuation. Of course, that was due to the fact that
18 that was our market. We were limited in that sense.
19 But after we have been able to go out and exercise --
20 well, pursue other markets, and there are other market
21 opportunities out there, you can see through the same
22 period of time in 1989, we didn't experience any
23 drop-off in our sales.

24 Q. When we look at total pool deliverability,
25 and on a monthly basis you gave me 600 thousand Mcf a

1 month?

2 A. Yes.

3 Q. Let's assume that OXY has the total pool
4 deliverability, not only for their wells but for all
5 the wells, and your engineer said, "Mr. Dawson, I'm
6 going to give you the total pool deliverability to
7 market."

8 A. Yes.

9 Q. Do you think you could market that gas?

10 A. Yes, sir, I believe I can.

11 Q. What's the basis for that opinion?

12 A. It's been my experience that markets are
13 available for the purchase of this gas which exceed
14 the producer's ability to sell the gas from the field
15 in the past.

16 Q. Are you aware of any operator that is
17 having any kind of curtailment of his production for
18 lack of a market?

19 A. No, sir, not simply for lack of market.

20 Q. Do you see any disparity between the
21 transporters of gas produced in the pool so that if a
22 certain operator is hooked up with a certain
23 transporter, then even when he wants to get to market,
24 he can't? Do you see any of that going on in this
25 pool?

1 A. Of course, the different pipelines have
2 different capacity and that type of thing, but it is
3 important to recognize the fact that there are
4 interconnect points between most of these pipelines,
5 and there is access to various kinds of exchange
6 arrangements and whatnot; so that, in my opinion, that
7 would not impose any kind of limitation on your
8 ability to take the gas to some available market.
9 There would be a way to move the gas.

10 Q. Is the current market in any way like the
11 historical market several years ago where a producer
12 is locked into a long-term gas contract with El Paso
13 or some other company that now is in the
14 transportation business?

15 A. Not at all. In fact, most of the pipelines
16 in the field have ceased being purchasers of gas and
17 have become mostly transporters of gas. That's the
18 trend. The highest percentage of purchased gas by any
19 one of the pipelines that we are selling gas to in the
20 field is 25 percent, and the remainder of that gas
21 throughput on their system is transported gas, which
22 reflects the fact that producers in this area are
23 getting their gas released from the traditional types
24 of arrangements that you refer to, and they're
25 pursuing other kinds of markets, and they are securing

1 those markets.

2 Q. Are you aware of any instance in the pool
3 where an operator because of seasonal demands in the
4 summertime is locked into a long-term contract that he
5 can't get temporary release of that gas volume if he
6 wants to take it to another market?

7 A. It's been my experience that most of the
8 pipelines are willing to offer short-term relief for
9 situations for such an operator, and month-to-month or
10 seasonal release of gas is readily forthcoming. They
11 are willing to offer those kinds of opportunities to
12 producers who may have gas contracted to them who
13 otherwise would not be able to sell it due to a
14 decrease in summer demand.

15 Q. Based upon your experience, Mr. Dosson, do
16 you see any reason to continue the proration system
17 for this pool in order to equitably allocate the
18 market demand for that pool's production among the
19 operators in the pool wells?

20 A. No, sir.

21 MR. KELLAHIN: That concludes my
22 examination of Mr. Dawson. We would move the
23 introduction of Exhibit No. 15 at this time, Mr.
24 Examiner.

25 HEARING EXAMINER: Exhibit No. 15 will be

1 admitted into evidence at this time.

2 CROSS-EXAMINATION

3 BY HEARING EXAMINER:

4 Q. Mr. Dawson, do you know roughly about what
5 percentage of the gas is interstate as opposed to
6 intrastate from this pool?

7 A. No, sir, I don't, but I believe the
8 majority of it goes into interstate markets.

9 Q. How about of the transporters, which ones
10 are transporting intrastate?

11 A. Which transporters are transporting
12 intrastate?

13 Q. Yes.

14 MR. STOVALL: Mr. Dawson, you might look at
15 Exhibit 3.

16 HEARING EXAMINER: Yes, that's what I'm
17 referring to.

18 THE WITNESS: Okay. The transporters that
19 I recognize that would be transporting gas intrastate
20 would be Gas Company of New Mexico and Llano.

21 The other names on this list, some of them
22 are operators, have perhaps systems of their own,
23 primarily, for moving their own gas. Phillips 66
24 would be sort of -- they would be a transporter, and
25 they would also be a gatherer to their own

1 facilities. They are not a typical transporter in the
2 sense of El Paso Natural Gas or Llano or Gas Company
3 of New Mexico, Northern Natural, or Natural Gas
4 Pipeline.

5 Q. How about OXY? OXY's name appears on
6 here. What kind of a marketing relationship or
7 transportation relationship does OXY have in this
8 pool?

9 A. I believe that would just be our own
10 gathering facilities which take the gas to our own
11 processing plant, processing facilities.

12 Q. Does OXY as a transporter, does it take
13 just gas from their own wells, or are they also taking
14 gas from other wells?

15 A. We take gas from other wells as well.

16 Q. Do you have a percentage perhaps of
17 production or a number of wells from the other
18 operators that are hooked up to OXY's transportation
19 system?

20 A. No, I don't.

21 Q. Do you know which part of the pool that
22 OXY's line goes to?

23 MR. STOVALL: Is there another witness who
24 can answer that better?

25 THE WITNESS: Yes, sir.

1 MR. KELLAHIN: We have a reservoir engineer
2 who can tell the connections.

3 HEARING EXAMINER: We'll just wait for
4 that. I have no other questions of Mr. Dawson.

5 Are there other questions of this witness?

6 MR. STOVALL: I do have just a couple of
7 questions, Mr. Dawson.

8 CROSS-EXAMINATION

9 BY MR. STOVALL:

10 Q. Do you market all of OXY's gas through its
11 operations, let's say, the Southwest just to keep it
12 simple?

13 A. No, I don't, but I do market the majority
14 of it in this area.

15 Q. Do you market all of OXY's New Mexico gas?

16 A. Let me explain something about how we are
17 structured now that causes that to be a little bit
18 different.

19 In 1981 and through 1985, I marketed the
20 gas. I had primary responsibility for the entire
21 area, our entire Southwest region. Since that time
22 we've been structured a little bit differently in that
23 there are reps who have been assigned to specific
24 pipelines, and they would also then at this time be
25 responsible for marketing gas on those pipelines.

1 However, that does not in the Southwest or in this
2 area doesn't reflect a majority of their business.
3 Most of cur gas would not be situated on those
4 pipelines. It's sort of a chance occurrence.

5 Q. The reason I'm asking those questions is, I
6 guess the real question is, do you have a pretty good
7 understanding of OXY's total gas marketing operations
8 and situation?

9 A. Yes, I do.

10 Q. Say, just coming out of New Mexico gas,
11 roughly what general fraction or percentage of OXY's
12 gas comes out of the Burton Flat-Morrow Pool? We're
13 looking at less than a quarter, less than a half?

14 A. Much less than a quarter.

15 Q. So there is substantial gas produced
16 throughout mostly southeast New Mexico; is that
17 correct?

18 A. I'm sorry?

19 Q. Is most of OXY's production in southeast
20 New Mexico for gas? Most of it's New Mexico
21 production?

22 A. Most of OXY's production companywide?

23 Q. No, just for New Mexico, within the
24 southeast.

25 A. Yes, that's correct.

1 Q. Does the gas go both directions, east and
2 west?

3 A. Yes, it does.

4 Q. Do you know if OXY has any problem
5 marketing gas from other pools and fields in New
6 Mexico? Are you able to market all the gas you
7 produce?

8 A. Yes, we are.

9 Q. So it's not just that you are able to
10 market the Burton Flat gas, but in fact any gas that
11 OXY is capable of producing, it can find a market for?

12 A. That's right.

13 Q. At an acceptable price, I assume that
14 means? Not necessarily desirable but acceptable?

15 A. Yes, I guess an acceptable price, yes.

16 MR. STOVALL: I think that answers all the
17 questions I've got for the moment.

18 HEARING EXAMINER: For the moment. Thank
19 you, Mr. Dawson.

20 MR. KELLAHIN: Mr. Examiner, I'd like to
21 call Mr. Scott Gengler. Mr. Gengler is a reservoir
22 engineer and a production engineer that's done
23 additional work for OXY with regards to some of the
24 topics involved in today's hearing.

25 SCOTT GENGLER,

1 the witness herein, after having been first duly sworn
2 upon his oath, was examined and testified as follows:

3 DIRECT EXAMINATION

4 BY MR. KELLAHIN:

5 Q. Mr. Gengler, would you please give us your
6 name and occupation for the record.

7 A. My name is Scott Gengler, spelled
8 G-e-n-g-l-e-r. I'm a petroleum engineer with OXY USA.

9 Q. Mr. Gengler, have you on prior occasions
10 testified as a petroleum engineer before the Division?

11 A. No, I have not.

12 Q. Would you summarize your educational
13 background for us?

14 A. Yes. I have a Bachelor of Science Degree
15 in Petroleum Engineering from Texas A&M University.

16 Q. Subsequent to graduation, would you
17 summarize for us your employment experience as to
18 petroleum engineering?

19 A. I have been a production and reservoir
20 engineer for OXY USA since graduation.

21 Q. Are you familiar with the production and
22 the reservoir characteristics in the Burton
23 Flat-Morrow Gas Pool of Eddy County, New Mexico?

24 A. Yes, I am.

25 MR. KELLAHIN: We tender Mr. Gengler as an

1 expert petroleum engineer.

2 HEARING EXAMINER: Mr. Gengler is so
3 qualified.

4 Q. (BY MR. KELLAHIN) In terms of studying the
5 question of whether or not prorationing can be
6 terminated or, in the alternative, continued in the
7 Burton Flat-Morrow, what were you asked to do, Mr.
8 Gengler?

9 A. I was asked to look at the drainage
10 question as it applies to marginal wells and
11 nonmarginal wells, and whether or not these marginal
12 wells would drain production from the non -- excuse me
13 -- nonmarginal wells would drain production from the
14 marginal wells.

15 Q. In the absence of proration?

16 A. Right.

17 Q. In order to answer the question of whether
18 or not the nonmarginal wells will drain beyond their
19 320-acre spacing unit if the prorationing allowable
20 restrictions are removed, what did you do?

21 A. We looked at all the nonmarginal wells that
22 OXY operates in the pool and determined what their
23 drainage area was.

24 Q. Have you reduced your calculations and your
25 work to a summary display that shows the results of

1 that calculation?

2 A. Yes, I have.

3 Q. Let me turn to Exhibit No. 16. Is this
4 your exhibit?

5 A. Yes, it is.

6 Q. Describe for us what you've done and what
7 you've concluded.

8 A. We have calculated from isopach maps a
9 Φ_{iHSg} for each one of our nonmarginal wells in the
10 pool and used that data along with data from P/Z
11 analysis for a couple of reserves in a volumetric
12 equation to determine drainage area.

13 Q. When you look at the nonmarginal wells that
14 OXY operated in the pool, what did you calculate for
15 the drainage areas of those wells?

16 A. We calculated that all wells that we
17 operate as nonmarginal wells have a drainage area of
18 less than 320 acres.

19 Q. The calculated drainage areas for each of
20 those six wells is shown on Exhibit No. 16?

21 A. Yes, it is.

22 Q. Describe for us the method that you went
23 about to get that drainage area.

24 A. We had our geologist do isopach maps of
25 each individual sand that is produced in each one of

1 the nonmarginal wells, and we came up with an isopach
2 map for each one of those wells.

3 We then used that data with planimeter data
4 to come up with the PhiHSq.

5 Q. What, if anything, did you do as an
6 engineer to check the accuracy of the volumetric
7 calculation?

8 A. We used P/Z analysis to come up with our
9 reserves, and we double-checked that number against
10 our decline curve analysis and also rate versus cum
11 gas analysis.

12 Q. In your opinion, are the wells that you've
13 chosen to determine whether or not they had the
14 ability to drain areas larger than 320, whether or not
15 those wells are representative and typical of the
16 higher capacity nonmarginal wells in the pool?

17 A. Yes. I believe that these are typical.
18 OXY is the largest operator in the pool. We have the
19 most amount of nonmarginal wells. These wells are
20 spread out both in the north and in the south end of
21 the pool and give a representative cross-section of
22 the wells in the pool.

23 Q. Can you give us a case study and show us
24 the calculations and the method of analysis that you
25 applied to each of the six wells?

1 A. Yes, I can.

2 Q. Which well did you select for the case
3 study?

4 A. We chose the OXY operated Elizondo Federal
5 A #3.

6 Q. Why did you select the Elizondo Federal A
7 #3 well?

8 A. It had the most amount of recoverable
9 reserves assigned to it and in our drainage area
10 calculations, showed the most drainage area of any of
11 our wells.

12 Q. If we then had a likely candidate for a
13 well that might adversely affect offsetting spacing
14 units, this is it; right?

15 A. Yes, it is.

16 Q. What did you do?

17 A. We took and determined the drainage area
18 for this well.

19 Q. Your drainage calculation is shown on
20 Exhibit 17?

21 A. Yes, it is.

22 Q. Then you confirmed the calculation by
23 comparing it to the cumulative recovery on your P/Z
24 versus Q plot?

25 A. Yes.

1 Q. Do you have a plot for that well shown in
2 the exhibit book?

3 A. Yes, I do.

4 Q. That's No. 18?

5 A. Yes.

6 Q. Using the P/Z versus Q gas slope, what did
7 you determine to be the total gas reserves for the
8 well?

9 A. 7.58 billion cubic feet.

10 Q. How did that match with your volumetrics
11 that you calculated your drainage for?

12 A. They matched identically.

13 Q. In your opinion, will the high capacity
14 nonmarginal wells in the absence of prorationing have
15 the opportunity to impair the correlative rights of
16 the offsetting spacing units by enjoying a drainage
17 advantage over those spacing units?

18 A. No, they will not.

19 Q. Have you looked at any other engineering
20 factors or conclusions that would support your opinion
21 that the high capacity wells in this area are not
22 going to drain more than 320 acres?

23 A. Yes, I have.

24 Q. What did you do?

25 A. On our Elizondo Federal A #3, I took our

1 offsetting wells to the north, to the south, and to
2 the east of the Elizondo Federal A #3, and I compared
3 bottom hole pressures.

4 Q. So the Examiner can find where you are in
5 the pool, let's take Exhibit No. 1 and have you show
6 us where these four wells on Exhibit No. 19 are
7 located?

8 A. The Elizondo Federal A #3 is located in
9 Section 20 of Township 21 South, Range 27 East.

10 Q. Down on the south end of the pool?

11 A. Yes.

12 Q. And the other wells that are shown on
13 Exhibit 19, where are those wells located?

14 A. They are located in Sections 20, 21, and
15 29.

16 Q. By looking at the bottom hole pressure
17 information for those four wells, what does it tell
18 you as an engineer?

19 A. It tells me that there is no difference or
20 no correlative rights problems between the marginal
21 and the nonmarginal wells.

22 Q. When we look at this display, which are the
23 nonmarginal wells, and which are the marginal?

24 A. The Elizondo Federal A #3 is a nonmarginal
25 well. The other three are marginal.

1 I'd like to point out the CDM A #1 is
2 currently classified as a marginal well, but we have
3 had a tubing leak in that well and have had to repair
4 it. It takes time to repair the damage that is done
5 by the water that has been put on that formation, plus
6 we have other mechanical problems that we need to fix,
7 and we are kind of waiting to see what happens with
8 this hearing before we decide whether or not we want
9 to do this work.

10 Q. What is the magnitude or range of pressure
11 differential between the marginal wells and the
12 nonmarginal wells shown on this display?

13 A. There is a difference of about 1,500 to
14 1,600 pounds.

15 Q. For this particular reservoir in this area,
16 what does that tell you?

17 A. It tells me that these two zones are not
18 communicated, and that there should be no drainage
19 between these two zones.

20 Q. Were you asked to study any other issue or
21 topic with regards to this case?

22 A. Yes, I was.

23 Q. What were you asked to do?

24 A. I was asked to determine the pool
25 deliverability of this pool.

1 Q. Did you do that?

2 A. Yes, I did.

3 Q. What, in your opinion, is the current total
4 pool deliverability for the Burton Flat-Morrow Gas
5 Pool?

6 A. I found that the pool deliverability is 600
7 million cubic feet per month.

8 Q. How did you make that determination?

9 A. We contacted all the nonmarginal operators
10 in the pool to determine what the deliverability of
11 their wells were. Then we assembled that information
12 from them, assuming that they may or may not be
13 producing their wells at capacity.

14 The marginal wells, we assumed that they
15 could produce anything they could; so they were giving
16 their largest production within the last year as a
17 deliverability.

18 Q. What is OXY's total deliverability of the
19 wells that they operate?

20 A. It's approximately 250 million per day.

21 HEARING EXAMINER: 215?

22 THE WITNESS: 250.

23 Q. (BY MR. KELLAHIN) Were you asked to do
24 anything else?

25 A. Yes, I was.

1 Q. What else were you asked to do?

2 A. I was asked to look at the opportunity to
3 work over, drill, or add compression to our wells to
4 increase production from this pool.

5 Q. Does that opportunity exist?

6 A. Currently, it has limited applications due
7 to allowables.

8 Q. Describe for us what you've done in order
9 to reach that conclusion.

10 A. The first thing that we did was, after
11 getting an increase in allowable in October, we worked
12 over four wells, and we installed compression on seven
13 additional wells.

14 Q. Can you give us a plat that shows the
15 specific wells in which additional work was done?

16 A. Yes, I can.

17 Q. Is that Exhibit No. 20?

18 A. Yes, it is.

19 Q. Let's go to that and have you identify for
20 us that display and the color code that applies to the
21 display.

22 A. On this map, the blue dots indicate the
23 work that has been done since October of 1989 as far
24 as workovers. It also includes two wells that have
25 been recompleted into the pool.

1 The orange dots indicate the compressor
2 applications that have been added. There are seven of
3 those.

4 The green dots indicate proposed 1990
5 workovers that we had proposed to management but have
6 not received approval of.

7 And the red dots are the proposed 1990
8 wells, including the government "AB" #5 that is
9 currently being completed.

10 Q. Assume that proration continues and also
11 assume the Commission does not put any administrative
12 bonus allowable into the system. Under those
13 assumptions, can OXY go ahead with the rework,
14 recompletion, compressor installations, or the
15 drilling of new wells in this pool?

16 A. No, they may not.

17 Q. Why not?

18 A. Due to economics.

19 Q. If we apply a consistent level of temporary
20 bonus allowables so that each well enjoys on a
21 continual regular monthly basis a fixed amount of
22 allowable, what allowable amount would that have to be
23 in order to generate the additional workover and
24 recompletion work?

25 A. I would say the bonus allowable that was

1 added in October and November would justify that if we
2 could be guaranteed for one or two years that that
3 would be in effect.

4 Q. What does that translate down to to an
5 individual nonmarginal well in terms of a daily
6 producing rate, do you remember?

7 A. I believe it was about 700 Mcf per day.

8 Q. 750 is what I remember, but it was in that
9 range?

10 A. Okay, yes.

11 Q. What opportunity did OXY exercise then in
12 response to receiving the temporary bonus allowables
13 in October and November of 89?

14 A. We took and installed seven compressors on
15 both nonmarginal and marginal wells.

16 Q. And that is what's shown on this exhibit?

17 A. Yes, along with the workovers.

18 Q. Why is that not a sufficient enough action
19 by the Division to allow the pool to be operated in
20 such a way that we maximize ultimate limited recovery
21 from the pool?

22 A. Because we are proposing to do other work,
23 and that other work needs a longer response time to
24 recapture our investment in these workovers and
25 drilling opportunities. And right now our

1 management's concern is how long do we get this bonus
2 allowable.

3 Q. Identify for us what has been the recent
4 history in terms of new drilling activity targeted for
5 this particular pool.

6 A. Since 1983 when we drilled the last well in
7 the pool, there has been no other wells drilled down
8 to the Morrow until we commenced the drilling of the
9 Government AB #5 in December of 1989.

10 Q. Why was that well commenced then?

11 A. We decided to go ahead and start our
12 drilling program to show the Commission that there is
13 additional opportunity for drilling in this pool and
14 what kind of results that we might obtain.

15 Q. Why wasn't that opportunity exercised from
16 83 to December of 89?

17 A. First of all, the market demand was below
18 what the deliverability of the wells were; hence, we
19 could not market all the gas that we were producing,
20 which was pretty typical of all operators.

21 Q. That's changed though in the last 18
22 months, has it not?

23 A. Yes, it has.

24 Q. In the last 18 months, why wasn't, in
25 response to the removal of the constraints of the

1 market demand -- in other words, you've got market
2 demand that now exceeds pool deliverability, why did
3 that not trigger additional drilling in the pool in
4 the last 18 months?

5 A. Because of low allowables.

6 Q. Let's turn now to Exhibit No. 21 and have
7 you identify and describe that exhibit.

8 A. This is a graph of production from one of
9 our marginal wells in the Burton Flat-Morrow Pool
10 where we have installed compression. This well is,
11 like I say, still classified as a marginal well.
12 Prior to the installation of the compressor, the well
13 was producing approximately 300 Mcf per day. Prior to
14 the bonus allowable, this well was classified as
15 nonmarginal. It was making the 220 average allowable
16 for the last 12 months prior to the bonus allowable.

17 In December we installed compression, and
18 we are currently producing in the range of 700 Mcf per
19 day, which when the Commission gets around to
20 reclassifying it would move it from a marginal to a
21 nonmarginal status.

22 Q. What's your conclusion from looking at the
23 information on the Tracy C #1 well?

24 A. My conclusion is there's ample
25 opportunities to increase production with

1 compression. If the allowables were to remain back
2 prior to the bonus allowable at 220, we would have
3 never done this work.

4 Q. Let's turn to Exhibit No. 22, Mr. Gengler,
5 and have you identify and describe the information on
6 this display.

7 A. These are typical well economics for
8 drilling a Burton Flat-Morrow well. Typical drilling
9 cost is \$685,000. We have shown three cases here, the
10 first case being one where the average allowable was
11 220 Mcf per day, which was the average allowable for
12 the 12 months prior to the addition of the bonus
13 allowable.

14 The second case assumes that we keep that
15 750 Mcf per day bonus allowable and not change it for
16 at least two to three years.

17 And the third case is if there was no
18 proration at all.

19 Q. What do you conclude from making this
20 economic analysis in terms of whether or not
21 prorationing can be continued?

22 A. The first case where we stay back where we
23 were on a proration at 220 Mcf per day, the net
24 present worth of the drilling well would be a negative
25 \$10,000.

1 On the prorated case where we had 750 Mcf
2 per day guaranteed, the present worth is \$521,000 and
3 would take 2.1 years to get our money back on it.

4 The third case with no proration has a
5 present worth of \$582,000, and that's 1.5 years
6 pay-back period.

7 Q. In your opinion, should prorationing be
8 continued for the Burton Flat-Morrow Gas Pool?

9 A. No, it should not.

10 Q. Let me turn now to Exhibit 23. What is
11 that, sir?

12 A. This is a letter from one of the other
13 operators in the field, Petrus Oil Company, and this
14 was an unsolicited letter to our petition for
15 deprorating the Burton Flat-Morrow Field.

16 In their letter, they say there's no
17 economic incentive to rework these wells because of
18 the low allowables. They feel like that they have
19 potential in their marginal wells to rework them, but
20 with the allowable even at 750 Mcf per day, it doesn't
21 give them a security to go about doing this or the
22 economic justification to do it.

23 Q. And you're talking about reworking of the
24 marginal wells?

25 A. Yes.

1 Q. In your opinion, Mr. Gengler, if the
2 Division terminates prorationing, will that result in
3 increasing the ultimate recovery of gas from the pool?

4 A. No, it will not.

5 Q. I didn't make myself clear.

6 A. Excuse me.

7 Q. If they terminate, in your opinion, will
8 that result in increasing the ultimate recovery?

9 A. Yes, it will increase the ultimate recovery
10 of the pool because it will allow us and other
11 operators to do rework and compression installations
12 that they would not do under proration.

13 MR. KELLAHIN: That concludes my
14 examination of Mr. Gengler.

15 We would move the introduction of his
16 Exhibits 20 through, I believe 23 is the last one.

17 HEARING EXAMINER: Exhibits 20 through 23
18 will be admitted into evidence.

19 CROSS-EXAMINATION

20 BY HEARING EXAMINER:

21 Q. Mr. Gengler, let's refer to Exhibit No. 22,
22 and you bring that figure up again, and it's been
23 mentioned several times, and I want to make sure I get
24 it right, what this figure is and where it came from.
25 The 750 Mcf per day, explain to me what that is

1 again.

2 A. That is what we used as the bonus allowable
3 that was put into effect in October of 89, and we used
4 that as a standard, you know, if we got a bonus
5 allowable equal to that from now to the end of the
6 pool life.

7 Q. Was this the only figure you worked with?
8 Did you work with another figure, say 600, 650, 500
9 Mcf per day on any of your economic analyses?

10 A. No, we did not.

11 Q. How many wells in this pool -- I'll ask it
12 in two parts. You have definitely looked at it as far
13 as OXY's wells. How many OXY wells are there that are
14 capable of producing over 650 Mcf per day?

15 A. I'd say four or five.

16 Q. On a regular basis -- now, are we talking
17 about after workover, or are we talking about now?

18 A. We're talking about now.

19 Q. How about poolwide?

20 A. I would say there's probably another three
21 or four currently that can produce over that 650, but
22 I'd like to also interject that several operators have
23 told me that they would like to install compression or
24 do some rework to increase those.

25 One company in particular said that they

1 would like to rework a well and put it on
2 compression. They've tested for compression and feel
3 like it would make 2 million per day. Currently, the
4 deliverability is 160 Mcf per day.

5 Q. Of OXY's wells that are capable, the four
6 or five that would be capable of producing over 750
7 Mcf a day, where are they located in the pool?

8 A. They're pretty much spread out to the pool.

9 Q. That's what I was getting at.

10 A. They're not concentrated in one area.

11 Q. The same with the three or four others?

12 A. Yes.

13 HEARING EXAMINER: Mr. Kellahin, I see that
14 we're going to have some geology enter into this?

15 MR. KELLAHIN: Just briefly to lay the
16 foundation for the engineering calculations that were
17 done for the drainage conclusions, Mr. Examiner. I
18 wouldn't expect it to take more than 15 minutes to put
19 that in.

20 Q. (BY HEARING EXAMINER) Of these OXY wells
21 -- I'm going to refer to Exhibit No. 16 -- of the OXY
22 wells that you alluded to that were capable of
23 producing over 750 Mcf a day, are they listed on
24 Exhibit 16?

25 A. All but one or two of them are listed on

1 here.

2 Q. Which one of these six wells can produce
3 over 750 Mcf a day?

4 A. The Cawley A #1, the Government AD #3.
5 Prior to the workover, the Elizondo Federal A #3 was
6 capable. It currently is not. We have some damage
7 from a tubing leak on that well, but production is
8 slowly climbing, and we expect it in the next few
9 months to be back above 650.

10 Q. Those are two. Is there another one on
11 there?

12 A. There was the Cawley A #1, the Government
13 AD #3, and we expect here fairly soon the Elizondo
14 Federal A #3.

15 Q. Going back to Exhibit No. 22, in the third
16 case, nonprorated, you get a payback over
17 one-and-a-half years. This is a typical well
18 economics. What kind of daily production are we
19 looking at?

20 A. Initial production of 1.3 million per day.

21 Q. Of a typical well, when would we start
22 seeing this production drop off?

23 A. What do you mean by drop off?

24 Q. To the 750 Mcf a day.

25 A. I would assume it would take about a year,

1 year-and-a-half.

2 HEARING EXAMINER: I have no other
3 questions of this witness. Are there any questions of
4 Mr. Genqler?

5 MR. STOVALL: I don't ask engineers
6 questions.

7 HEARING EXAMINER: He may be excused.
8 Mr. Kellahin?

9 MR. KELLAHIN: My last witness, Mr.
10 Examiner, is John Carroll. Mr. Carroll is a
11 geologist.

12 JOHN CARROLL,
13 the witness herein, after having been first duly sworn
14 upon his oath, was examined and testified as follows:

15 DIRECT EXAMINATION

16 BY MR. KELLAHIN:

17 Q. Mr. Carroll, for the record, would you
18 please state your name and occupation.

19 A. Yes. My name is John Carroll. I'm an
20 exploitation geologist with OXY USA, Inc.

21 Q. How do you spell your last name?

22 A. C-a-r-r-o-l-l.

23 Q. Mr. Carroll, have you on prior occasions
24 testified before the Division?

25 A. No, I have not.

1 Q. Would you summarize your educational
2 background?

3 A. I have a Bachelor's of Science Degree in
4 Geology from the University of Texas at El Paso which
5 was received in 1981. Since that time, I have worked
6 for Cities, OXY, in both an exploration and production
7 capacity.

8 Q. Have you prepared a geologic interpretation
9 of the various areas in the Burton Flat-Morrow Gas
10 Pool?

11 A. Yes, I have.

12 Q. How long have you been working in this
13 particular pool doing geologic mapping, contouring
14 interpretations?

15 A. Since 1988.

16 MR. KELLAHIN: We tender Mr. Carroll as an
17 expert petroleum geologist.

18 HEARING EXAMINER: Mr. Carroll is so
19 qualified.

20 Q. (BY MR. KELLAHIN) Mr. Carroll, what were
21 you asked to do with regards to this particular case?

22 A. I was asked to assist our engineer in
23 determining the drainage areas for all of our
24 nonmarginal wells within the Burton Flat-Morrow pool.

25 Q. In order to fulfill that responsibility,

1 what did you do?

2 A. I went through a number of various stages
3 to come up with some PhiH numbers that were utilized
4 in Mr. Gengler's computations.

5 Q. Have you provided in the exhibit book a set
6 or an example of the PhiH maps that you prepared for
7 his use?

8 A. Yes, I have.

9 HEARING EXAMINER: For the record, we're
10 talking Greek again, right, Mr. Kellahin?

11 THE WITNESS: Yes. Those PhiH maps are
12 Exhibits 25 through 28 in the book.

13 Q. (BY MR. KELLAHIN) Let me ask you, sir, to
14 turn to Exhibit No. 24, which is the first of the
15 geologic displays. You prepared that?

16 A. Yes, I did.

17 Q. In looking at the stratigraphy of the
18 Burton Flat-Morrow, identify for us that portion of
19 the Morrow that you mapped and utilized for purposes
20 of Mr. Gengler's calculations of the drainage areas.

21 A. For that particular case study, I did PhiH
22 maps on the Morrow B horizon.

23 Q. Why did you choose the Morrow B horizon for
24 the particular wells to map?

25 A. For that particular case, because those

1 particular sands were the productive sands in that
2 case study area.

3 Q. Having prepared a north-south stratigraphic
4 cross-section through the pool, what do you conclude?

5 A. I think it shows the variability in sand
6 deposition from the northern part of the pool to the
7 southern part of the pool. The blue areas are
8 carbonates, and the yellow areas are indicative of
9 sands.

10 Q. Mr. Gengler has concluded based upon his
11 work that if prorationing is terminated, that he
12 cannot find any of the wells he's examined that will
13 have the ability to drain more than the 320-acre
14 spacing unit assigned to them. How do you react to
15 receiving that conclusion as a geologist, Mr. Carroll?

16 A. I think based on the depositional system
17 we're looking at here and the discontinuity of the
18 Morrow reservoir, as is exemplified by Exhibit No. 29
19 --

20 Q. Let's turn to Exhibit No. 29 and take a
21 look at that.

22 A. This was a cross-section through the case
23 study area from south to north. It shows that the
24 primary productive sand, the B-2 sand, as you go to
25 the north, that reservoir quality diminishes rapidly

1 to the nrth. And due to that discontinuity, I'm not
2 surprised at all that these nonmarginal wells do not
3 drain or actually drain less than 320 acres.

4 Q. For purposes of the record, let's go
5 through a case study so that Mr. Stogner understands
6 the geologic basis for the engineering conclusions.

7 Let me start with Exhibit 25.

8 A. Okay. I'll give you a little background up
9 to that exhibit.

10 Q. All right.

11 A. What I attempted to do is correlate the
12 productive sands for each nonmarginal well from that
13 nonmarginal well to the surrounding wells. And for
14 each productive sand, I created a PhiH map for each
15 productive sand.

16 Q. And you did this for all of the ones on
17 which Mr. Gengler has calculated drainage areas?

18 A. Yes, I have.

19 Q. For purposes of the exhibit book, you have
20 included only those set of geologic displays that
21 apply to the Elizondo #3?

22 A. Yes.

23 Q. When we look at the Elizondo #3 then,
24 Exhibit No. 25 is your mapping of the B-2 sand?

25 A. Yes. And I did similar PhiH mapping for

1 all of the productive sands in that nonmarginal well
2 and surrounding wells.

3 Q. And then Mr. Gengler has taken the sum
4 total of all those maps for those producing sands in
5 that nonmarginal well and made his calculations of the
6 gas to be recovered and, correspondingly, the drainage
7 areas?

8 A. Yes, he has.

9 MR. KELLAHIN: That concludes my
10 examination of Mr. Carroll.

11 Mr. Examiner, we would move the
12 introduction of his geologic displays which are shown
13 in the exhibit book, starting with Exhibit 24 through
14 29.

15 HEARING EXAMINER: Exhibits 24 through 29
16 are admitted into evidence.

17 THE WITNESS: The last well on that
18 regional field cross-section is also incorporated in
19 the case study, the CDM "A" #1.

20 HEARING EXAMINER: And that is the only
21 well?

22 THE WITNESS: Yes, sir. That was just to
23 give you a general idea of the variability in sand
24 deposition across the field.

25 That last cross-section I have on a larger

1 scale if you'd like to look at that.

2 CROSS-EXAMINATION

3 BY HEARING EXAMINER:

4 Q. No. I was trying to establish which zones
5 are the more prolific producers?

6 A. I would say the Morrow B and the Morrow A.
7 Morrow C is primarily carbonates.

8 Q. Within the Morrow B, which of the
9 stringers? You've got B-1.

10 A. For our particular case study, I believe
11 the B-2 would be the primary contributor to that
12 production.

13 Q. Do we see this B-2 zone pinch out as we go
14 to the north?

15 A. Yes, I believe we do for this particular
16 study area. We're dealing with highly channelized
17 systems here, and this B-2 can pick up again in other
18 areas of the field. We did a similar process for each
19 one of our nonmarginal wells.

20 HEARING EXAMINER: I have no questions of
21 this witness. He may be excused.

22 MR. KELLAHIN: One follow up, one question.

23 REDIRECT EXAMINATION

24 BY MR. KELLAHIN:

25 Q. As a geologist, do you see any direct

1 correlation to the porosity thickness values used in
2 the calculations and the corresponding productivity of
3 the wells?

4 A. Yes, I do. I think there's direct
5 correspondence.

6 MR. KELLAHIN: No further questions.

7 HEARING EXAMINER: Thank you, Mr. Kellahin.

8 MR. KELLAHIN: That concludes our
9 presentation, Mr. Examiner.

10 HEARING EXAMINER: I don't believe there's
11 any -- or I have no reason to recall any witnesses at
12 this point, Mr. Kellahin. Do you?

13 MR. KELLAHIN: No, sir.

14 HEARING EXAMINER: Do you have anything you
15 would like to close with?

16 MR. KELLAHIN: We'd like the opportunity,
17 if you desire, to provide you with a draft order that
18 will provide you a basis for granting the
19 application. As you can see from the witnesses, OXY
20 has examined this particular pool in-depth for a
21 number of months. We've tried to look at terminating
22 prorationing from every conceivable possible
23 perspective, looking at all the major and secondary
24 issues that might arise for your consideration.

25 It's interesting to note that we cannot

1 find anyone that wants to keep prorating in the
2 pool. There is no reason, I think, to have an
3 administrative solution fixed upon a pool in which
4 none of the interest owners want it. I think what
5 we're asking you is why keep something that no one
6 wants.

7 There are certain things to examine. All
8 the other issues are based upon the single compelling
9 reason for prorating, and that is, when the pool
10 deliverability is going to regularly and consistently
11 exceed market demand, then that is the predicate upon
12 which we base prorating because we have
13 productivity or deliverability of the wells that is
14 going to exceed the pool market demand.

15 The demonstration here is that just the
16 reverse is occurring, has occurred in the recent past,
17 and will continue to occur on a regular basis. That
18 is, market demand is going to consistently exceed the
19 deliverability of the pool. There is not a seasonal
20 adjustment factor that justifies the continuation of
21 prorating.

22 We might try to guess and see what level of
23 productivity or allowable is going to justify the
24 economic incentives necessary for the additional work,
25 but I think we're guessing. I think we need to

1 terminate prorationing and let the operators in the
2 pooling go about the business of producing gas from
3 that pool in the most efficient way. We can find no
4 reason to continue the prorationing for this
5 particular pool, and, accordingly, would request the
6 Division to terminate. Thank you.

7 HEARING EXAMINER: Thank you, Mr.
8 Kellahin.

9 Does anybody else have anything further in
10 this case?

11 Mr. Kellahin, I won't turn down your offer
12 for a rough draft.

13 MR. KELLAHIN: All right, sir.

14 HEARING EXAMINER: Case No. 9872 will be
15 taken under advisement.

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STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF CASE 9872 BEING)
REOPENED PURSUANT OT THE PROVISIONS) CASE NO. 9872
OF DIVISION ORDER NO. R-9463, WHICH)
ORDER, AMONG OTHER THINGS, PROVIDED)
FOR THE RREOPENING OF SAID CASE 9872)
IN ORDER THAT ALL OPERATORS IN THE)
BURTON FLAT-MORROW GAS POOL, EDDY)
COUNTY, NEW MEXICO, MAY APPEAR AND)
PRESENT EVIDENCE RELATIVE TO THE)
PERMANENT TERMINATION OF GAS)
PRORATIONING FOR SAID BURTON)
FLAT-MORROW GAS POOL.)
-----)

REPORTER'S TRANSCRIPT OF PROCEEDINGS
EXAMINER HEARING

BEFORE: DAVID R. CATANACH, Hearing Examiner
September 19, 1991
10:50 a.m.
Santa Fe, New Mexico

This matter came for hearing before the Oil Conservation Division on September 19, 1991, at 10:50 a.m. at the State Land Office Building, 310 Old Santa Fe Trail, Santa Fe, New Mexico, before Linda Bumkens, CCR, Certified Court Reporter No. 3008, in and for the County of Bernalillo, State of New Mexico.

FOR: OIL CONSERVATION
DIVISION

BY: LINDA BUMKENS CCR
Certified Court Reporter
CCR NO. 3008

I N D E X

1
2 September 19, 1991
3 Examiner Hearing
4 CASE NO. 9872

5 APPEARANCES 2

WITNESSES

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12 OXY USA INC.

13 Exhibits 1 through 8 19

A P P E A R A N C E S

14 FOR THE DIVISION: ROBERT G. STOVALL, ESQ.
15 General counsel
16 Oil Conservation Commission
17 310 Old Santa Fe Trail
18 Santa Fe, New Mexico
19 87501

20 FOR OXY USA INC: KELLAHIN, KELLAHIN & AUBREY
21 BY MR. W. THOMAS KELLAHIN, ESQ.
22 117 North Guadalupe
23 Santa Fe, New Mexico
24 87501

1 EXAMINER CATANACH: Call Case 9872.

2 MR. STOVALL: In the matter of Case Number
3 9872 being reopened pursuant to provisions of
4 Division Order R-9463 which order, among other
5 things, provided for the reopening of Case 9872 in
6 order that all operators in the Burton Flat-Morrow
7 Gas Pool, Eddy County, New Mexico, may appear and
8 present evidence relative to the permanent
9 termination of gas prorationing for said Burton
10 Flat-Morrow Gas Pool.

11 EXAMINER CATANACH: Are there appearances in
12 this case?

13 MR. KELLAHIN: Mr. Examiner, I'm Tom Kellahin
14 with the Santa Fe Law Firm Kellahin, Kellahin &
15 Aubrey appearing today on behalf of Oxy USA Inc.,
16 and I have one witness to be sworn.

17 MR. CATANACH: Are there any other
18 appearances?

19 (No response).

20 Will the witness please stand and be sworn
21 in?

22 (At which time Mr. Foppiano was sworn.)

23 RICHARD E. FOPPIANO,
24 the Witness herein, being duly sworn, was examined
25 and testified as follows:

1 DIRECT EXAMINATION

2 BY MR. KELLAHIN:

3 Q. Will you please state your name and
4 occupation?5 A. My name is Richard E. Foppiano, and my
6 occupation is regulatory affairs engineer for Oxy
7 USA in Midland, Texas.8 Q. Mr. Foppiano, did you testify in Case 9872
9 on February 21, 1990 in the case in which your
10 company sought to terminate gas prorationing in the
11 Burton Flat-Morrow Gas Pool?

12 A. Yes, I did.

13 Q. And both prior to and subsequent to that
14 hearing, have you kept yourself informed with
15 regards to the various items of importance to
16 today's hearing?

17 A. Yes, I have.

18 Q. Based upon your studies, Mr. Foppiano, have
19 you come to conclusions about whether or not
20 prorationing in the Burton Flat-Morrow Gas Pool
21 ought to be terminated or ceased on a permanent
22 basis?

23 A. Yes, I have.

24 MR. KELLAHIN: We tender Mr. Foppiano as an
25 expert petroleum engineer.

1 EXAMINER CATANACH: He is so qualified.

2 Q. (By Mr. Kellahin) Let me have you turn to
3 your package of exhibits, Mr. Foppiano, and before
4 obtaining your recommendations for the Examiner
5 concerning prorationing, let's have you take a
6 minute and refresh our recollection about the
7 regulatory history that's in --

8 MR. KELLAHIN: Mr. Examiner, we provided you
9 with a copy of the prior orders that suspended
10 prorationing in the pool along with Mr. Foppiano's
11 exhibit book.

12 Q. (By Mr. Kellahin) Would you summarize for
13 us to refresh our recollection, Mr. Foppiano, the
14 regulatory history that's being used in the Burton
15 Flat-Morrow Gas Pool to manage that production?

16 A. Yes, I will. Exhibit Number 1 is just a
17 previous history of the regulatory aspects of the
18 Burton Flat-Morrow field. The pool was created in
19 1973, it became prorated in 1974, and in 1985 one of
20 the operators in the pool petitioned the OCD to
21 terminate prorationing, and their request was denied
22 at that time.

23 In '89 Oxy came in and asked the Oil
24 Conservation Division to increase the allowable in
25 the field because there was a market demand that was

1 not being reflected by the current proration system,
2 and pursuant to that request, the OCD added volumes
3 administratively to the pool allowable in October
4 and November '89, and then at a hearing in February
5 of 1990 Oxy requested that proration be permanently
6 terminated in the Burton Flats-Morrow field on the
7 basis that it was just unnecessary to continue
8 prorating the pool.

9 Q. Let's focus on the last order which was the
10 one that resulted in prorating being temporarily
11 suspended. Summarize for us, and I know the orders
12 detail them more explicitly, but summarize for us
13 the major components for having prorating
14 suspended for the pool?

15 A. Well, Exhibit 2 are the details of why we
16 requested that the OCD terminate prorating in the
17 field. We said that terminating prorating will
18 prevent waste because it will provide an incentive
19 to the operators to drill wells, rework old wells,
20 and do other things that would increase the ultimate
21 recovery.

22 We felt at that time that the current
23 prorating system was actually a disincentive for
24 these type activities, and, in fact, our review of
25 the history indicated that very little of that type

1 of activity had been done and that other operators
2 indicated the same problem that the allowable system
3 was what was preventing them from undertaking these
4 type of activities.

5 We also show that correlative rights
6 wouldn't be adversely effected by termination of
7 proration. We show that there was a market demand
8 for everything that the pool could produce. The few
9 nonmarginal wells had limited drainage areas.

10 We showed that by geological and
11 engineering testimony, and there were a few
12 nonstandard units and most of those were marginal.
13 I think there was only one that was nonmarginal, and
14 the only multiple well unit in the field was
15 operated by BHP, I believe, and it had temporarily
16 -- one of the multiple wells that was temporarily
17 abandoned at that time -- so we didn't feel like
18 proration to adjust equities between multiple well
19 units and nonmultiple well units was justified in
20 that case.

21 We also believe that potential for
22 nonrateable taking by pipelines didn't exist anymore
23 since the pipelines weren't actually taking gas
24 anymore they were just transporting it, and the
25 operators were selling their gas on the open market.

1 Most of them were, the ones that we talked to, so
2 there wasn't much taking going on, and so the
3 potential for nonrateable taking just didn't exist
4 in that scenario.

5 And lastly, we pooled the operators, and I
6 think at the time of the hearing we showed that
7 operators of 97 percent of the wells had waived in
8 protest of the action.

9 Q. Since the order was entered, what has
10 occurred with regard to the management and
11 production of the reserves being produced from that
12 pool?

13 A. All sorts of good things have occurred.
14 Exhibit 3 details them. Pool production has
15 increased substantially since the temporary
16 suspension of proration. New wells have been
17 drilled. Prior to the time when we had the hearing
18 last year I don't think there had been any new wells
19 added to the field in, I want to say, five years or
20 more.

21 Compression installation and work over
22 activity has increased substantially. We've done
23 more of that type of work, and other operators have
24 indicated that they've done more of that type of
25 work. We believe there continues to be a market for

1 all the gas, and we'll show you some evidence of
2 that market. And to my knowledge, no one has
3 complained since proration was temporarily suspended
4 in February.

5 Q. Has the additional drilling, the
6 recompletions, the installations of compressors, the
7 increased production from the pool, directly
8 attributable to suspending prorationing in that
9 pool?

10 A. In my opinion, yes, it is.

11 Q. Let's turn to some of these specific
12 details with regards to these events. Starting off
13 with the gas production from the pool, if you'll
14 turn to the display following tab four. Identify
15 and describe that for us?

16 A. This is a plot of the pool production and
17 MCF -- or excuse me -- millions of cubic feet per
18 month produced in the years '88, '89, '90, '91, and
19 it shows fluctuations of production, but basically
20 before the winter season of 1989 it shows -- I'm
21 going to guess -- about 250 million a month average
22 production for the pool.

23 Since the OCD started adding allowable into
24 the pool, and since proration was terminated, you
25 can see the average production is at least over 500

1 million cubic feet per month. So in my opinion, pool
2 production has doubled, at least doubled, since the
3 OCD has taken the action that they've taken.

4 And the graph also shows what, you know,
5 the increase that Oxy has seen and the increase that
6 their operators have seen, and what I think is
7 fairly obvious there is that not only has Oxy
8 benefitted to some degree, but the other operators
9 have certainly taken advantage of this opportunity
10 to produce as much as they desire, and I think
11 that's shown by the widening gap between our
12 production and the total pool production.

13 Q. Can you show us on the gas production
14 display that point in time in which the additional
15 bonus allowable was applied to the pool which you
16 asked for back in '89, I believe it was?

17 A. Yes. In October and November of 1989, the
18 OCD administratively added pool allowable, or
19 allowable to the pool to increase it, and you can
20 see what the pool production did as a result of
21 that. It went up dramatically. And in December and
22 January -- I can't see which one exactly -- as you
23 can see over 600 million for the month, and then, of
24 course, you see it dropping dramatically, and the
25 reason why that is, based on my investigation, is

1 that that so incurs the operators to produce that
2 some of them overproduced, and we were still under
3 the current proration system at that time, and they
4 got overproduced and had to curtail their
5 production.

6 And that's why the production dropped
7 dramatically until about March or April of 1990.
8 And April 1, 1990, was the effective date of the
9 termination of prorationing. And you can see the
10 production went right back up again.

11 Q. Let's turn now to the information behind
12 tab five. What have you presented here?

13 A. Yes. I mentioned that workover activity
14 has increased substantially. This is an exhibit
15 that just shows the workover activity that Oxy has
16 undertaken since the winter of 1989 when the
17 allowable started to be increased, and what it shows
18 is that there are several wells where we've opened
19 up additional Morrow Zones and increased the
20 production from those wells as a result of that
21 workover.

22 We have stimulated -- You see the Tracy
23 Al? We stimulated the Morrow in that well --
24 fracture stimulated it -- and we did the same thing
25 on CDM A Number 1. We opened up additional Morrow

1 Zones and stimulated it, and on the Government Z1 we
2 even recompleted the well from the WolfCamp into the
3 Morrow. And on the rest of them you can see we've
4 done a pretty good -- I have a pretty good program
5 of compression installation, which was another thing
6 we identified the proration was working against
7 because there wasn't much incentive at that time to
8 install compression to increase productional
9 marginal wells because the nonmarginal allowable was
10 so low.

11 Q. This activity was not undertaken without
12 risk; isn't that true?

13 A. That's true. You can see that before and
14 after numbers there. In some cases like when we
15 opened up additional Morrow on the Elizando Federal
16 Number 3, we cut our production in half, and you can
17 also see that some of the increases that we saw were
18 not very significant. For example, the CDM A 1, we
19 only increased our deliverability to 50 MCF a day.
20 The Elizando Federal A2Y, 10 MCF a day, and you
21 know, there's some other examples of that, but
22 basically it points out the risky nature of
23 undertaking activities of this sort.

24 You know, you're going to -- you hope to
25 come out ahead on the long run, but there are risks

1 in doing this type of activity.

2 Q. Have prorating continued for this period
3 none of this activity would have occurred?

4 A. Very little of it, I think. There wouldn't
5 be as much of it. It's hard to say that we wouldn't
6 have done any of this, but we certainly would not
7 have done as much as this had prorating continued
8 because the incentive was not there.

9 Q. Turn now to the information behind tab 6
10 and identify and explain that.

11 A. I think one of the main things we showed in
12 the hearing in February was that there hadn't been
13 very many new wells added to the field, and there
14 was potential for new wells to be added to the
15 field, but there wasn't any incentive under the
16 current proration system, and the termination of
17 proration provided that incentive, and sure enough,
18 after proration was terminated we count six new
19 wells have been drilled in the field at a
20 substantial investment.

21 Four of those wells have been completed in
22 the Morrow, and two of them was completed -- one of
23 them was completed in the Wolfcamp and the other in
24 the Atoka. And it's also significant to point out
25 that not only has Oxy undertaken this activity, but

1 another operators have also.

2 And as you can seen by the initial
3 deliverabilities and by the completions that some of
4 these are successful and some of them were not as
5 successful probably as the operators had hoped, so
6 there, again, it points out the risk of even
7 drilling -- infield drilling in this field.

8 Q. In your opinion, has the suspension of
9 prorationing for this pool resulted in increasing
10 ultimate recovery of hydrocarbons from this pool?

11 A. It most definitely has. By the work over
12 and drill activities I think there has been a
13 substantial increase in the ultimate recovery that
14 would be realized from this pool.

15 Q. Have you made an assessment to determine
16 whether or not there is still market demand that
17 exceeds the total pool-wide deliverability for
18 production from this pool.

19 A. Yes. During the last several months, as
20 you can see from the table in Exhibit 6, we have
21 been completing and trying to put these wells on
22 line. Some of these new ones, particularly the
23 Tracy D and the Simpson A2Z.

24 And so we've been talking to and
25 communicating with other markets, other pipe lines,

1 in the field to assess what marketing opportunities
2 we have. And it's our opinion that based on those
3 contacts that there is ample capability to move gas
4 out of this field, and there is even interest
5 generated to improve that even more, but there's
6 ample market.

7 And what I'm getting around to saying, I
8 guess, is there's ample opportunity and ample market
9 for not only the pool deliverability as it exists
10 today, but even for increase in the pool
11 deliverability.

12 Q. Are you aware of any operator that has been
13 unable to market his gas if he wanted to market his
14 gas from this pool?

15 A. I am unaware of any operator who has been
16 unable to market it because of -- or if he was --
17 They had a market.

18 Q. Has there been any pipeline capacity
19 problems or curtailments or restrictions due to the
20 additional production from the pool?

21 A. None that I'm aware of.

22 Q. Let me ask you to turn to the exhibit after
23 tab seven, and identify and describe this exhibit?

24 A. This is a plat showing the outlines of the
25 Burton Flat-Morrow Pool, and it shows all the wells

1 in the pool that are completed in the Morrow within
2 the outline of that field. It also shows
3 highlighted with little red dots, the six wells that
4 were drilled and shows the location of those wells.

5 It also shows in green, a well that is
6 still at this time a proposed well by Yates in the
7 lower left-hand part of this exhibit. And I don't
8 think that well's been spudded yet, but that's a
9 proposed location for a Burton Flat-Morrow well. It
10 shows that there's even a little more activity in
11 the field than what I had shown on the prior
12 exhibit. Those are just showing what are
13 completed. This shows that there's even still some
14 interest in drilling new wells in the future.

15 Q. Are you aware of any interest owner in the
16 pool that has demonstrated desire to reinstate
17 proration for the pool?

18 A. I'm aware of no one that has expressed such
19 a desire.

20 Q. Turn to the information behind tab 8. What
21 have you compiled?

22 A. These are communications we've had with
23 pipelines and other communications related to gas
24 marketing opportunities in the Burton Flat-Morrow
25 area, and letter number 1 there, it shows -- this is

1 a response to interest expressed by Gas Company of
2 New Mexico in purchasing our volumes off of the well
3 we're completing as we speak in the Burton
4 Flat-Morrow, and the next letter is the same type of
5 response to a request for Maple. Maple expressing
6 interest there in buying gas from one of our new
7 wells. Phillips 66 Natural Gas Company is the third
8 letter. They're interested in taking gas from the
9 field. And then there is Llano expressing an
10 interest in taking our gas from the field.

11 MR. STOVALL: It must be a great contract.

12 THE WITNESS: Everybody wants a piece of it.

13 A. TransWestern Pipeline Company expressing
14 interest in gas sales from our gas production in the
15 Burton Flat-Morrow area. And the last two letters
16 are from Axis Gas Corporation, and I thought this
17 would be interesting to include in that it points
18 out the opportunities that had been created as a
19 result of termination of prorationing in the field.

20 This is a company that is looking at
21 installing a low pressure gathering system in the
22 area to be able to allow operators to produce their
23 wells in lieu of having to install lease compression
24 if they want to go that route, and this has the
25 benefit of just like compression increasing the

1 ultimate recovery from the pool.

2 And so I wanted to point it out that in my
3 opinion this is a direct result of the termination
4 of proration, and it's created this kind of
5 opportunity for the producers to take advantage of.
6 I don't think we'd have this kind of thing if we
7 were still under the existing proration system.

8 Q. With the suspension of prorating in the
9 pool, do you see any adverse consequences occurring
10 to wells that would have been classified as
11 marginal?

12 A. No, I do not.

13 Q. Has suspension of prorating attained the
14 objectives forecast by you and your company for this
15 pool?

16 A. In my opinion, it has.

17 Q. What is your recommendation to the Examiner
18 about the permanent termination of gas prorating
19 for the Burton Flat-Morrow Gas Pool?

20 A. My recommendation is that it be permanently
21 terminated.

22 Q. What is your basis behind that?

23 A. Well, on the basis that it's no longer
24 necessary to prorate the field. All the conditions
25 that -- the reasons that they for prorating don't

1 exist anymore. There's a market for all this gas.
2 It will prevent waste by allowing operators to
3 undertake the activity that they want to undertake
4 without curtailment, and it won't adversely effect
5 correlative rights because these wells have limited
6 drainage areas. So, I just I don't see the need to
7 continue prorating the field.

8 There's the nonmarginal units -- I mean --
9 the nonstandard proration units. I don't think are
10 a problem here. Multiple well units I don't think
11 are a problem either, so there's no reason to
12 continue prorating.

13 MR. KELLAHIN: That concludes my examination
14 of Mr. Foppiano. We move the introduction of
15 Exhibits 1 through 8.

16 MR. CATANACH: Exhibits 1 through 8 will be
17 admitted as evidence.

18 (Oxy Exhibits 1 through 8 were
19 admitted in evidence.)

20 MR. STOVALL: One point of clarification.
21 Mr. Kellahin, are you -- because it's a reopened
22 case, I assume your position is that the record from
23 the prior hearing on this case is a part of this
24 record as well?

25 MR. KELLAHIN: Yes, Mr. Stovall.

1 MR. STOVALL: The evidence can be considered;
2 is that correct?

3 MR. KELLAHIN: And, in fact, not only the
4 record but the order itself asked us to come forward
5 as parties and express our comments about the
6 permanent nature of this suspension, so we think
7 this is a continuation of the same base case.

8 DIRECT EXAMINATION

9 BY MR. STOVALL:

10 Q. Mr. Foppiano, on Exhibit 5 you've got the
11 CDM A 1 twice. Once you tested and fract and then
12 installed compressor?

13 A. Uh-huh.

14 Q. Is that correct?

15 A. Yes.

16 Q. In that sequence? It looks like it might
17 be the opposite sequence; is that correct?

18 A. I can't tell you the sequence, Mr. Stovall.

19 Q. I'm just trying to trace from the volume is
20 what I'm trying to do. It looks like the
21 compression went from 190 to 240 and then tested and
22 fract, put back down, and when you fractured you got
23 it back up into the 750?

24 A. Well, that could be, and that may well be,
25 but I really don't know, but these before and after

1 volumes are the actual right before we did the work
2 and after we did the work, so they wouldn't be --
3 they might not necessarily be the same. It may have
4 been that 750 declined down to 190 and we put it on
5 compression, but I really don't know. I would
6 suspect we did what was cheapest to start with,
7 which is to put it on compression, and when that
8 didn't really pan out like we wanted it then we went
9 in and opened additional Morrow and spent more money
10 on it.

11 Q. So the 750 would reflect actually probably
12 a combination compression and --

13 A. Could be, yes. Probably does, yes.

14 Q. How come the Simpson A Number 2-Z was so
15 much more expensive? Is this something we've
16 already discussed?

17 A. No. That was a well we tried to drill as a
18 straight-up Morrow well at a new location,
19 encountered difficulty, and the difficulties were we
20 lost circulation, I believe, and we could not
21 overcome those difficulties so we plugged that well,
22 skidded the rig, tried it again, and encountered the
23 same difficulties and the same problems with the
24 same result.

25 We plugged that well and gave up trying to

1 drill just a brand new well, and we went up to an
2 old abandoned well on the same 320-acre unit,
3 reentered it and drilled directionally and
4 encountered some problems.

5 Q. I remember that now. I didn't recognize
6 the name.

7 A. So the total cost here 1.2 million is
8 actually to get a producing well back on that tract,
9 so that includes the cost of the --

10 Q. The first two attempts. I forgot. I
11 didn't remember the name of it. It was a
12 forced-pooling case wasn't it, Mr. Foppiano?

13 A. It was a forced pooling and a directional
14 drilling. We had to get directional drilling
15 authority to reenter that well. In fact, I might
16 just point out the Tracy D is also a reentry. We're
17 talking about the same area, and we got so scared on
18 that Simpson we did the Tracy D as a reentry.

19 Q. A real cheap reentry and a real expensive
20 reentry; is that what you're saying?

21 A. Yeah.

22 Q. Do you suppose the additional production
23 that's resulted from the prorationing unit is
24 contributed to the decline in the price of gas?

25 A. Oh, I wouldn't say.

1 Q. Loaded question.

2 EXAMINATION

3 BY MR. CATANACH:

4 Q. Mr. Foppiano, have you been in contact with
5 any of the other operators in the pool?

6 A. Recently or --

7 Q. Yes, in terms of this reopened case.

8 A. In terms of this reopened case I've been in
9 contact with Bridge Oil Company, who has been
10 monitoring the situation ever since the order was
11 issued last year, and I have talked with them, and
12 they just wanted to keep up to speed with what was
13 happening.

14 DIRECT EXAMINATION

15 BY MR. STOVALL:

16 Q. It kept the Burton Flat-Morrow on the
17 proration schedule kind of as a steady case so we
18 could see what would happen to it, and I really
19 looked at it, but have you looked at it enough to
20 see that by allowing you to produce at these rates,
21 has it pushed what would have been the allowable
22 upward, or have you been able to see any effect
23 there on how it would?

24 A. Oh, I think it's most definitely pushed the
25 allowable up. The new rules also have that

1 provision in there about six times the January
2 allowable, and if you want to look at Exhibit 4, you
3 can see the January allowable is when the pool
4 produced the most, so the six times limitation is
5 extremely high for the pool right now -- the
6 nonmarginal wells in the pool right now. So that
7 being the limitation for overproduction you know --
8 the current system right now doesn't prevent much
9 restriction, but what would happen, in my opinion,
10 is that as the production either fluctuated, you
11 know, somebody didn't want to sell their gas or
12 whatever, or they did reach the limitation and
13 started curtailing their production again, then we'd
14 end up back where we were before, or even though
15 there's a market for all this gas, we're still --
16 the allowable system is still driving down because
17 it's based on production and --.

18 Q. Now, when this was done, and I'm asking
19 these questions not so much for this pool but for
20 more information and the system as a whole, when
21 this original order was entered in this case we were
22 under the old monthly system which was
23 mathematically driven by prior production because
24 really setting up the allowable was not much more
25 than a mathematical calculation unless we

1 intentionally did something. So under that old
2 system I would assume by lifting the lid, so to
3 speak, that that mathematical drive would go up in
4 this pool. Do you have any recollection back prior
5 to last March when the new system went into effect?

6 A. Under the old system, because you mentioned
7 it was so tight, to just what was produced two
8 months prior and couple that with the six times the
9 average monthly allowable for the -- for that
10 average monthly allowable, that low limitation and
11 the fact that it was driven by production was
12 causing a lot of problems in this particular pool.

13 The new proration system, in my opinion, is
14 a whole lot better. It's much more, I think,
15 responsive to increase in production. It provides
16 the operators a lot more flexibility and, you know,
17 it's a lot better, but I've asked myself the
18 question, well, what would happen if we were just
19 under the new proration system in this pool? And I
20 always come back to the question, Well, why prorate
21 here? Nobody wants it.

22 There's no reason to continue prorating it,
23 so we really shouldn't prorate this pool anymore.
24 But to get back to your general question, I think
25 that the new system represents a tremendous

1 improvement because it is less driven by that
2 two-month figure -- two months prior -- and more
3 driven by an average figure, and then the
4 adjustments that are added, there's more input into
5 those adjustments by the operator, so it's a much
6 better system in my opinion.

7 Q. We could overcome the deficiency of the old
8 system where if somebody pulled gas off the market
9 for whatever business reasons, you could present
10 evidence in that process that would say, don't base
11 the future demand on that old?

12 A. It overcomes -- it overcomes it to a large
13 degree, but it still -- because it is a production
14 based driven or production driven system -- it
15 forces an operator to monitor it a lot closer and
16 keep up with it, and then be ready to come in and
17 provide that evidence, and in this particular case,
18 you know, I could not see that it's necessary to
19 continue doing that. But in my opinion it is less
20 responsive to an operator for taking his gas off the
21 market than the prior system, and that's one of the
22 great benefits to it.

23 Q. Are there any -- in this particular pool,
24 are there any what we affectionately refer to as
25 "superstar-type wells" that given no -- the

1 nonproration that have the potential to, you know,
2 produce tremendous volumes and cause a threat to
3 correlative rights. More of a --

4 A. There are some there. There's very few of
5 them. Faskin has one. We had one that was a very
6 good well that's declined.

7 Q. What volume ranges would that be?

8 A. Well, it's declined down to -- I want to
9 say, 500 M a day. I'd have to look again, but it
10 was, I think, as early as last year producing 3 or 4
11 million a day -- capable of producing that much
12 volume. So I would classify that as a
13 "superstar-type well." I think Faskin has a well
14 or two that is in the 2 to 3-million-a-day category,
15 and, in fact, I think it's -- you can easily
16 identify and you can look at the proration schedule
17 and they're the ones that are identified as being
18 over the six times under the new proration system,
19 and there's a few of those, but I also harken back
20 to the correlative rights argument.

21 Can these wells effect their neighbors, and
22 our evidence shows last year, and it continues to
23 show, that the drainage areas are extremely limited
24 even by these good nonmarginal wells. We don't
25 think that they're going to be able to adversely

1 effect their offsets, and obviously no other
2 operator feels that they're going to be adversely
3 effected by these superstar wells being allowed to
4 produce unlimited and, in fact --

5 Q. For what period of time? I mean, when you
6 say obviously given enough time their drainage areas
7 will become greater, are we talking about a couple
8 of years or --

9 A. But these superstar wells are also good
10 because they have more reserves, more porosity,
11 better permeability, so they've got a bigger tank to
12 drain, and, you know, so they have a lot more to
13 do. And by looking at the Morrow it's so
14 lenticular, you know, they're so stratified, you
15 know, I would -- like I say based, on our
16 calculations of just what has been recovered by the
17 nonmarginal wells we don't see those, and I think we
18 even have some offsets to these wells, we don't see
19 those as a threat to the offset wells.

20 And I would also bring up that another
21 operator in the field, Chevron, has indicated that
22 they don't think that any of the wells down there
23 are capable of draining 320 acres. Bridge Oil
24 Company has expressed that opinion to me, and I
25 think it's in the communication they sent to you all

1 about the drainage. So everything I see there is
2 there's no concern about the drainage aspect, you
3 know, for allowing these good wells to produce
4 unlimited.

5 MR. STOVALL: No Further questions.

6 FURTHER EXAMINATION

7 BY MR. CATANACH:

8 Q. Mr. Foppiano, you presented some evidence
9 whereas Oxy has been presented numerous
10 opportunities to sell their gas from the field. Do
11 you have any knowledge of other operators being
12 presented the same opportunity?

13 A. No, I do not.

14 Q. But you've heard of no instance where an
15 operator cannot sell his gas or market his gas?

16 A. In preparation for the February 1990
17 hearing, I talked to -- I want to say 17 of the 19
18 operators. I certainly got waivers from that many,
19 and I had to talk to a lot of them to get those
20 waivers and explain to them what we were asking for,
21 and in a lot of those discussions we talked about
22 the market.

23 I think I inquired -- I know I did -- of
24 some of the operators of the nonmarginal wells why
25 their wells were underproduced. Was it a lack of

1 market situation, whatever? And in no case did I
2 run into an operator who said he could not sell the
3 gas he wanted to. In the two years I've been
4 working on this and talking with the operators I
5 have not run across anybody in the last two years
6 that has been curtailed because they didn't have a
7 market for their gas.

8 Q. Do you have any information on workovers
9 conducted by various other companies in the pool?

10 A. No. I researched records that I had at my
11 disposal, which are basically the Byran Legislative
12 Reports. I think they pick up all the activities,
13 and I didn't see anything in there that related to
14 recompletions in the Morrow, but I wasn't sure if
15 that was because they don't look for that, or there
16 just wasn't much activity going on in that respect.

17 From talking with other people in the pool,
18 it appears to me that we are one of the major
19 players in that -- in opening up additional Morrow.
20 Maybe these other people had already had additional
21 Morrow zones opened and we're playing catch up here.
22 I don't know.

23 But as far as opening up additional
24 Morrows, those type of workovers -- I don't have
25 much knowledge about what the other operators are

1 doing in their recompletions.

2 EXAMINER CATANACH: I believe that's all I
3 have. The witness may be excused. Anything further
4 in this case?

5 (No response)

6 EXAMINER CATANACH: There being nothing
7 further, Case 9872 will be taken under advisement.

8 (The foregoing case was concluded at the
9 approximate hour of 12:45 p.m.)

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I do hereby certify that the foregoing is
a complete record of the proceedings in
the Examiners hearing of Case No. 9872,
heard by me on September 19 1997.

David R. Catanach, Examiner
Oil Conservation Division

1 STATE OF NEW MEXICO)
) ss.
 2 COUNTY OF BERNALILLO)

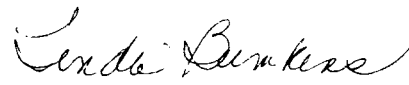
3 REPORTER'S CERTIFICATE

4 BE IT KNOWN that the foregoing transcript of
 5 the proceedings were taken by me, that I was then
 6 and there a Certified Shorthand Reporter and Notary
 7 Public in and for the County of Bernalillo, State
 8 of New Mexico, and by virtue thereof, authorized to
 9 administer an oath; that the witness before
 10 testifying was duly sworn to testify to the
 11 whole truth and nothing but the truth; that the
 12 questions propounded by counsel and the answers of
 13 the witness thereto were taken down by me, and that
 14 the foregoing pages of typewritten matter contain a
 15 true and accurate transcript as requested by counsel
 16 of the proceedings and testimony had and adduced
 17 upon the taking of said deposition, all to the best
 18 of my skill and ability.

19 I FURTHER CERTIFY that I am not related to
 20 nor employed by any of the parties hereto, and have
 21 no interest in the outcome hereof.

22 DATED at Bernalillo, New Mexico, this day
 23 November 12, 1991.

24 My commission expires
 25 April 24, 1994


 LINDA BUMKENS
 CCR No. 3008
 Notary Public