

1 STATE OF NEW MEXICO
2 ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
3 OIL CONSERVATION DIVISION
4 CASE 9838

5
6 EXAMINER HEARING

7
8 IN THE MATTER OF:

9
10 Application of Parker Drilling Company
11 for the Institution of Gas Prorationing
12 and the Adoption of Special Rules for
13 the Pitchfork Ranch-Atoka Gas Pool,
14 Lea County, New Mexico

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17 TRANSCRIPT OF PROCEEDINGS

18
19 BEFORE: MICHAEL E. STOGNER, EXAMINER

20
21 STATE LAND OFFICE BUILDING

22 SANTA FE, NEW MEXICO

23 November 29, 1989

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ORIGINAL

CUMBRE COURT REPORTING
(505) 984-2244

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FOR THE DIVISION:

ROBERT G. STOVALL
Attorney at Law
Legal Counsel to the Divison
State Land Office Building
Santa Fe, New Mexico

FOR THE APPLICANT:

No Appearance

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1 HEARING EXAMINER: Continuing to the last
2 page of the docket, I'll call Case Number 9838.

3 MR. STOVALL: Application of Parker
4 Drilling Company for the institution of gas
5 prorationing and the adoption of Special Rules for the
6 Pitchfork Ranch-Atoka Gas Pool, Lea County, New
7 Mexico.

8 Applicant requests this case be continued
9 to December 13, 1989.

10 HEARING EXAMINER: Case Number 9838 will be
11 so continued.

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CERTIFICATE OF REPORTER

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

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I, Carla Diane Rodriguez Certified

Shorthand Reporter and Notary Public, HEREBY CERTIFY

that the foregoing transcript of proceedings before

the Oil Conservation Division was reported by me; that

I caused my notes to be transcribed under my personal

supervision; and that the foregoing is a true and

accurate record of the proceedings.

I FURTHER CERTIFY that I am not a relative

or employee of any of the parties or attorneys

involved in this matter and that I have no personal

interest in the final disposition of this matter.

WITNESS MY HAND AND SEAL December 3, 1989.

Carla Diane Rodriguez
 CARLA DIANE RODRIGUEZ
 CSR No. 91

My commission expires: May 25, 1991

I do hereby certify that the foregoing is
 a true and accurate transcript of the proceedings in
 the Oil Conservation Division, Case No. 9838,
 heard by me on 29 November 1989.
Mark D. Hays, Examiner
 Oil Conservation Division

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

Cases: 9712, 9713, 9828, 9838, 9799,
9812, 9813, 9788, 9827, 9829

CONTINUATIONS AND DISMISSALS
FROM THE EXAMINER HEARING

TRANSCRIPT OF PROCEEDINGS

BEFORE: DAVID R. CATANACH, EXAMINER

STATE LAND OFFICE BUILDING

SANTA FE, NEW MEXICO

December 13, 1989

A P P E A R A N C E S

FOR THE DIVISION:

ROBERT G. STOVALL
Attorney at Law
Legal Counsel to the Divison
State Land Office Building
Santa Fe, New Mexico

1 HEARING EXAMINER: We'll call this hearing
2 to order this morning for Docket No. 3589. We'll run
3 through the continuances and dismissals first this
4 morning.

5 Call Case 9712.

6 MR. STOVALL: In the matter of the hearing
7 called by the Oil Conservation Division on its own
8 motion to permit Tom L. Ingram, American Employers'
9 Insurance Company, and other interested parties to
10 appear to show cause why the Chappell "5" Well No. 1
11 in San Miguel County, New Mexico, should not be
12 plugged and abandoned in accordance with a
13 Division-approved plugging program.

14 We knew if we postponed this case long
15 enough that that well would somehow get plugged, and
16 so the Division moves to dismiss it at this time.

17 HEARING EXAMINER: Case 9712 is hereby
18 dismissed.

19 * * * * *

20 HEARING EXAMINER: Call Case 9713.

21 MR. STOVALL: In the matter of the hearing
22 called by the Oil Conservation Division on its own
23 motion to permit Tom L. Ingram, American Employers'
24 Insurance Company, and all other interested parties to
25 show cause why the Gihon "31" Well No. 1, San Miguel

1 County, New Mexico, should not be plugged and
2 abandoned in accordance with a Division-approved
3 plugging program. Worked for two of them.

4 Move to dismiss this case as well.

5 HEARING OFFICER: Case 9713 is hereby
6 dismissed.

7 * * * * *

8 HEARING EXAMINER: Call Case 9828.

9 MR. STOVALL: Application of Bill Fenn,
10 Inc., for an amendment of Division Order No. R-8951 as
11 amended, Eddy County, New Mexico.

12 Applicant requests this case be dismissed.

13 HEARING OFFICER: Case 9828 is hereby
14 dismissed.

15 * * * * *

16 HEARING EXAMINER: Call Case 9838.

17 MR. STOVALL: Application of Parker
18 Drilling Company for the institution of gas
19 prorationing and the adoption of Special Rules for the
20 Pitchfork Ranch-Atoka Gas Pool, Lea County, New
21 Mexico.

22 Applicant requests this case be continued
23 to December 27, 1989.

24 HEARING OFFICER: Case 9838 will hereby be
25 continued to the December 27th docket.

* * * * *

HEARING EXAMINER: Call Case 9799.

MR. STOVALL: The application of Bannon Energy Incorporated for an unorthodox oil well location, Rio Arriba County, New Mexico.

Applicant requests this case be dismissed.

HEARING OFFICER: Case 9799 is hereby dismissed.

* * * * *

HEARING EXAMINER: Call Case 9812.

MR. STOVALL: Application of Meridian Oil, Inc., on behalf of El Paso Natural Gas Company, for an unorthodox coal gas well location, Rio Arriba County, New Mexico.

Applicant requests this case be continued to December 27, 1989.

HEARING OFFICER: Case 9812 is hereby continued to the December 27th docket.

* * * * *

HEARING EXAMINER: Call Case 9813.

MR. STOVALL: Application of Meridian Oil, Inc., on behalf of El Paso Natural Gas Company, for an unorthodox coal gas well location, Rio Arriba County, New Mexico.

Applicant requests this case be continued

1 to December 27.

2 HEARING OFFICER: Case 9813 is hereby
3 continued to the December 27th docket.

4 * * * * *

5 HEARING EXAMINER: Call Case 9788.

6 MR. STOVALL: Application of Yates
7 Petroleum Corporation for directional drilling and an
8 unorthodox gas well location, Eddy County, New Mexico.
9 Applicant requests this case be dismissed.

10 HEARING OFFICER: Case 9788 is hereby
11 dismissed.

12 * * * * *

13 HEARING EXAMINER: Call Case 9827.

14 MR. STOVALL: Application of Exxon
15 Corporation for special casinghead gas allowable, Lea
16 County, New Mexico.

17 The Applicant requests this case be
18 continued to a hearing in February of 1990. Hearing
19 date to be determined when the schedule is published.

20 HEARING EXAMINER: Case 9827 is hereby
21 continued to the first hearing in February 1990.

22 * * * * *

23 HEARING EXAMINER: At this time we'll call
24 Case 9829.

25 MR. STOVALL: Application of Roberts and

1 Hammack, Inc., for a nonstandard oil proration unit,
2 Lea County, New Mexico.

3 Mr. Examiner, this case has been previously
4 heard and is being readvertised to correct notice
5 deficiencies.

6 HEARING EXAMINER: Are there any additional
7 appearances at this time?

8 MR. STOVALL: We will take this case under
9 advisement.

10 HEARING EXAMINER: There being no further
11 appearances, Case 9829 will be taken under advisement
12 at this time.

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CERTIFICATE OF REPORTER

STATE OF NEW MEXICO)
) ss.
COUNTY OF SANTA FE)

I, Freda Simmons, Certified Shorthand Reporter and Notary Public, HEREBY CERTIFY that the foregoing transcript of proceedings before the Oil Conservation Division was reported by me; that I caused my notes to be transcribed under my personal supervision; and that the foregoing is a true and accurate record of the proceedings.

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

WITNESS MY HAND AND SEAL February 18, 1989.

Freda Simmons
FREDA SIMMONS

I do hereby certify that the foregoing is a complete record of the proceedings before the Executive Hearing of Case No. 9838, held on December 13, 1989.

David R. Catant, Examiner
Oil Conservation Division

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION
CASE 9838

EXAMINER HEARING

IN THE MATTER OF:

Application of Parker Drilling Company for
Institution of Gas Prorationing and the
Adoption of Special Rules for the Pitchfork
Ranch-Atoka Gas Pool, Lea County, New Mexico

TRANSCRIPT OF PROCEEDINGS

BEFORE: MICHAEL E. STOGNER, EXAMINER

STATE LAND OFFICE BUILDING

SANTA FE, NEW MEXICO

December 27, 1989

ORIGINAL

CUMBRE COURT REPORTING
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A P P E A R A N C E S

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Santa Fe, N.M. 87504-2208

FOR SAMEDAN OIL CORP: CANDACE HAMANN CALLAHAN, ESQ.
Kellahin, Kellahin & Aubrey
Post Office Box 2265
Santa Fe, N. M. 87504-2265

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1 HEARING EXAMINER: I'll call next case, No.
2 9838.

3 MR. STOVALL: Application of Parker
4 Drilling Company for the institution of gas proration
5 and the adoption of special rules for the Pitchfork
6 Ranch-Atoka Gas Pool, Lea County, New Mexico.

7 HEARING EXAMINER: Call for appearances.

8 MR. PEARCE: May it please the Examiner, I
9 am W. Perry Pearce of the Santa Fe Law Firm of
10 Montgomery & Andrews, appearing in this matter on
11 behalf of Parker Drilling Company. I have one witness
12 who needs to be sworn.

13 HEARING EXAMINER: Are there any other
14 appearances?

15 MR. CARR: May it please the Examiner, my
16 name is William F. Carr with the law firm Campbell &
17 Black, P.A. of Santa Fe. I represent Enron Oil & Gas
18 Company in opposition to the application. I have four
19 witnesses.

20 HEARING EXAMINER: Are there any other
21 appearances?

22 MS. CALLAHAN: May it please the Examiner,
23 my name is Candace Callahan with the law firm of
24 Kellahin, Kellahin and Aubrey of Santa Fe. We're here
25 representing Samedan Oil Corporation in opposition to

1 the application.

2 MR. STOVALL: Do you have any witnesses?

3 MS. CALLAHAN: We have no witnesses.

4 HEARING EXAMINER: Are there any other
5 appearances? If not, are there any opening remarks,
6 gentlemen?

7 MR. STOVALL: Should we swear in the
8 witnesses and get that out of the way?

9 HEARING EXAMINER: Yeah, let's get these
10 witnesses sworn in at this time.

11 MR. STOVALL: Would the witnesses stand and
12 raise your right hands, please.

13 (Thereupon, all witnesses were sworn.)

14 HEARING EXAMINER: Any need for opening
15 remarks, gentleman?

16 MR. PEARCE: No.

17 MR. CARR: We'll waive opening.

18 HEARING EXAMINER: Mr. Pearce.

19 MR. PEARCE: Thank you, Mr. Examiner.

20 BRIAN AUSBURN

21 Called as a witness herein, after having been first
22 duly sworn upon his oath, testified as follows:

23 EXAMINATION

24 BY MR. PEARCE:

25 Q. I would ask the witness, would you please

1 state your name and place of residence.

2 A. Brian Ausburn; last name is A U S B U R N.
3 I work for J. R. Butler & Company, an oil and gas
4 consulting firm in Houston.

5 Q. Mr. Ausburn, have you previously appeared
6 before the New Mexico Oil Conservation Division or one
7 of its examiners and had your credentials made a
8 matter of record?

9 A. No, I have not.

10 Q. Sir, at this time I would ask you to
11 briefly describe your educational background for the
12 Examiner and those in attendance.

13 A. I graduated from the University of Oklahoma
14 with a bachelor's and master's degree in geological
15 engineering in 1961. I worked for Shell Oil Company
16 for about 15 years in the Rocky Mountains and New
17 Orleans and Texas, and I have been with J. R. Butler &
18 Company since 1976.

19 Q. Could you describe for us, please, very
20 generally, the responsibilities that you had during
21 your time with Shell Oil in the Rocky Mountain Region?

22 A. I was involved in general petroleum
23 engineering or exploitation work, they called at that
24 point, surveillance of wells, field site surveillance,
25 production surveillance and remedial work,

1 recompletion work, this type of thing.

2 Q. And since you joined J. R. Butler &
3 Company, have you had the same sorts of
4 responsibilities?

5 A. Well, we do--we provide technical services
6 for people that may not have adequate technical staffs
7 or maybe want a third party opinion or a second
8 opinion on some of their properties.

9 Q. And when you say "technical services," what
10 sorts of technical services are we talking about?

11 A. Field evaluations, field studies, property
12 evaluations for companies that either want to buy or
13 sell or borrow money.

14 Q. And what is your position with J. R. Butler
15 & Company?

16 A. I'm the president.

17 Q. And on your staff, what sorts of technical
18 expertise do you have?

19 A. We have geological personnel, we have
20 people that specialize in formation evaluation, log
21 analysis, we have reservoir engineers and some
22 reservoir modeling people.

23 Q. Mr. Ausburn, are you familiar with the
24 application that Parker Drilling Company has filed in
25 this case?

1 A. Yes, I am.

2 MR. PEARCE: Mr. Examiner, at this time I
3 would ask that Mr. Ausburn be recognized as an expert
4 in the fields of petroleum geology and petroleum
5 engineering.

6 HEARING EXAMINER: Are there any
7 objections?

8 MR. CARR: Just a couple of questions.

9 EXAMINATION

10 BY MR. CARR:

11 Q. Mr. Ausburn, has your previous work
12 involved work with the Permian Basin in New Mexico?

13 A. Yes.

14 Q. And in that regard, have you been called
15 upon to give opinions, render opinions concerning
16 prorationing in New Mexico?

17 A. No.

18 Q. When were you employed by Parker?

19 A. I think early November.

20 MR. CARR: That's all I have.

21 HEARING EXAMINER: There are no objections?

22 MR. CARR: No objections.

23 HEARING EXAMINER: Mr. Ausburn is so
24 qualified.

25

FURTHER EXAMINATION

BY MR. PEARCE:

Q. Mr. Ausburn, at this time I would ask you, please, to turn to what we have marked as Parker Exhibit No. 1 to this proceeding.

I would ask you to describe, please, for the Examiner and those in attendance, the information reflected on that exhibit.

A. This is a structure map on the top of the Atoka Sand reservoir. Shown on this map are the nine productive wells in the reservoir. You can see it's a south dipping structure and the reservoir is limited on almost several sides except parts of the south by lack of porosity.

There's a gas/water contact inferred from data down in Sections 11 and 10, I believe, and there's about 350 feet of relief. Also shown on the outline, on your exhibit, is the pool outline, the designated pool outline.

Q. And I notice there are some colored well spots. What are those spots?

A. Those are the nine producing wells from the Atoka Sand reservoir.

Q. All right, sir. Anything further on that exhibit?

1 A. I don't believe so.

2 Q. Let's look now, keep that exhibit in front
3 of you, if you would, and look at what we've marked as
4 Exhibit No. 2 to this producing. Would you please
5 describe that exhibit?

6 A. This is a tabulation that lists the wells
7 in chronological order of production.

8 Q. With Exhibit No. 1 in front of us and
9 Exhibit No. 2 in front of us, could you locate the
10 wells in the Pitchfork Ranch-Atoka Pool and in the
11 order in which they were completed?

12 A. Okay. The first well completed in the pool
13 was completed in September of '83. That's the
14 Pitchfork 34-1, which is in the southwest quarter of
15 Section 34.

16 Q. All right, sir.

17 A. The second well completed is the Cox, Vaca
18 Ridge 4-2. It started production in February of '86
19 and it's located in, I guess it is, the northeast
20 quarter of Section 4.

21 The third well completed in the reservoir
22 started production in October of '86, is the Diamond
23 5-3, which is in the north half of Section 5.

24 Q. And that is the well spot with the circle
25 around it and the 3 to the right?

1 A. Yes.

2 Q. The next well completed?

3 A. The fourth well completed was the Madera 32
4 State No. 3. It started production in January of '87,
5 and it's in the south half of Section 32. It's
6 directly north of the Diamond 5-3.

7 Q. All right, sir.

8 A. The fifth well completed is the Madera
9 33-3. It's directly east of the fourth well
10 completed. It started production in April of '87.

11 The sixth well completed started production
12 in May of '87. It's the Madera 28-2, and it's in the
13 bottom half--south half of Section 28.

14 The seventh well completed is in Section 3,
15 25 South. It's in the north half of Section 3. It's
16 the Page 3-2, and it started production in July of
17 '87.

18 The eighth well completed is the Madera
19 33-4. It's in the east half of Section 33, almost due
20 west of the first well completed. The 33-4 was
21 completed in November of '87.

22 The most recent completion in the reservoir
23 is the Meridian, Pitchfork 4-2. It's in the southwest
24 quarter of Section 4. It started production in August
25 of '88.

1 Q. All right, sir. With that background
2 information behind us, I would ask you now to please
3 turn to what we've marked as Exhibit No. 3 to this
4 proceeding. All right, Mr. Ausburn, would you please
5 briefly describe this exhibit for us?

6 A. Exhibit 3 is a net pay, net gas pay isopach
7 map for the Atoka Sand. The wells were, I think we
8 had 17 well points within the productive acreage, and
9 the net pay for each of these well points was
10 determined and posted on this map, and they are
11 contoured.

12 And the reservoir, as I said earlier, seems
13 to be limited on almost all sides by lack of porous
14 sand. There is a water contact inferred on the
15 southeast corner of the reservoir in Section 11, and
16 also an inferred water contact in Section 8.

17 Q. All right, sir. Anything else to highlight
18 on that exhibit?

19 A. I don't believe so. It's a fairly standard
20 presentation of that isopach.

21 Q. Let's turn now to Exhibit No. 4. And would
22 you describe the information reflected on that
23 exhibit, please?

24 A. Exhibit 4, I believe, is a list of--I think
25 there are 17 wells on here. It's a list of the

1 petrophysical or log evaluations for the wells for
2 which we had information, and it has the net pay,
3 which was noted as "H," it has the formation porosity
4 as is a fraction of bulk volume, and then water
5 saturation which is a fraction of pore volume.

6 Q. Reflecting back on Exhibit No. 3, the first
7 column headed "H" is the number reflected on the
8 isopach, is that correct, for each of these wells?

9 A. Yes, sir.

10 Q. Go ahead, please.

11 A. Okay. That's what Exhibit 4 is, a summary
12 of our petrophysical evaluations.

13 Q. Let's go through a sample well and explain
14 each of those columns and the source of the
15 information. The first well listed is the Half 5-1.
16 It shows a thickness of 2, and that is 2 feet, is that
17 correct?

18 A. 2 feet, yes, that's correct.

19 Q. All right, and then fee is a fraction of
20 bulk volume. Could you explain the source of that,
21 please?

22 A. The porosity logs available on the wells.

23 Q. And the final column?

24 A. The final column is a computation from the
25 resistivity and the porosity information of water

1 saturation.

2 Q. Okay. At the bottom the average fee is
3 13.9 percent?

4 A. That's correct.

5 Q. And the average water saturation?

6 A. Is 28.6. That's a thickness weighted
7 porosity and a fee-H weighted water saturation. Those
8 numbers were not actually used in our computations,
9 but that's the result of the averaging off of that
10 table.

11 Q. All right, sir. Now let's turn, please, to
12 Exhibit No. 5 to this proceeding. Could you describe
13 this exhibit for us, please?

14 A. This is a gas-filled pore volume map or
15 what we call a fee hS of G, and it comes from Exhibit
16 4. It's the multiplication of the thickness times the
17 porosity times the gas saturation, the gas saturation
18 being one minus the SW column on Exhibit 4.

19 Also shown on this is the outline of the
20 proration units. There are nine, four laid-down and
21 five stand-up units. And the multiplication of the
22 gas saturation, times the porosity, times the H, will
23 give us the fee hS of G numbers that are posted on the
24 map, and then these, in turn, were contoured.

25 Q. Are there other items to highlight for us

1 on this exhibit?

2 A. I don't think so.

3 Q. All right, sir. Turn with me now, please,
4 to what we've marked as Exhibit No. 6. Could you
5 describe this exhibit for us, please?

6 A. Number 6 is a distribution of productive
7 acreage, by our interpretation. I might point out, at
8 the bottom of the tabulation, productive acreage total
9 reservoir is slightly over 5,000 acres, and that's the
10 area encompassed by the zero line on Exhibit 5.

11 Q. All right, sir. Let's take as an example,
12 please, the first well reflected on that exhibit,
13 which is the Enron, Pitchfork 34-1 well. By your
14 interpretation, the area inside the zero isopach line
15 is 258.95 acres, is that correct?

16 A. That's correct.

17 Q. And then the next column, could you explain
18 that for us, please?

19 A. Well, that is a--if the sum of the first
20 numerical column is about 2,767 acres. Then each
21 proration unit's share of the developed acreage, then,
22 is shown in column 2. So 259 acres is about 9.4
23 percent of 2,767.

24 Q. And then the final column?

25 A. The final column then is 259 divided by

1 5,078. That's the percent of total productive
2 acreage.

3 Q. That would be approximately 559 over 5,077?

4 A. It would be 259 over 5,077, yes.

5 Q. All right, sir. Let's look now, please, at
6 Exhibit No. 7. Would you please explain the
7 information reflected on this exhibit?

8 A. This is a summary of the volumetric
9 analysis that comes quickly from Exhibit 5. The first
10 column is original gas in place in million cubic feet,
11 that's standard cubic feet, and the hydrocarbon or the
12 gas-filled pore volume under each of the proration
13 units was planimetered and the volumes computed for
14 acre-feet of gas, and then with the appropriate gas
15 expansion correction was converted into equivalent
16 original gas in place at standard conditions.

17 And, for example, the Enron 34-1 would
18 have, by our computations, about 2.4 bcf under its
19 proration; the Cox 4-2 would have 3.8 and so forth,
20 for a total of 24.1 bcf under the developed acreage.
21 And then the total for the reservoir is 34 bcf.

22 And then we have the same type of
23 percentage distribution as we had on the acreage. The
24 second column would indicate that the Enron 34-1 would
25 have about 10 percent of the total developed acreage

1 and 7 percent of the total gas in place for the
2 reservoir.

3 Q. All right, sir. Anything else you would
4 like to highlight on this exhibit?

5 A. No.

6 Q. All right, sir. Let's turn, please, to
7 what we've marked as Exhibit 8, and there are 2 pages
8 to this exhibit. The first page is a tabular set of
9 data. You might look at both of these exhibits at the
10 same time, if that's easier, and describe those for
11 us, please.

12 A. Page 1 of Exhibit 8 is a listing of 40
13 pressure points available for the reservoir over the
14 time period from the 1st of October in 1983,
15 essentially, to November 1 of '89. And the code will
16 indicate which of the points are measured by down-hole
17 pressure bombs, and then by inference, the ones that
18 are not so indicated, are computed from shut-in tubing
19 pressures.

20 Also noted is the first point for each
21 well. Those are the crosses. The asterisks show the
22 measured points.

23 Q. For instance, the first entry shown on this
24 column shows both an asterisk and a cross. That
25 indicates that for the Pitchfork 34-1 well that was

1 the first pressure taken, and it was a measured
2 pressure since both symbols occur, is that correct?

3 A. That's true.

4 Q. Keeping that in mind, let's look at the
5 second page of Exhibit 8, please. What have you done?

6 A. This is a conventional presentation of
7 bottom-hole pressure divided by the gas deviation
8 factor plotted against cumulative gas production.

9 The red triangles are the measured points,
10 and the uncolored boxes are the computed points from
11 shut-in tubing pressure. There's a line extrapolated
12 that honors the maximum pressure that we believe is
13 possible for the reservoir and honors the measured
14 points. Extrapolation of that line would come to
15 about 42.2 bcf in place.

16 Maybe I should have--perhaps everybody in
17 the room knows this, but when P over Z , bottom-hole
18 pressure over Z goes to zero, by definition, this is
19 the gas in place. This is a way to determine gas in
20 place. So at zero pressure, the apparent gas in place
21 from the extrapolation of that line would be slightly
22 over 42 bcf.

23 However, we have 34 bcf from volumetric
24 control and we have a reservoir model or run that
25 indicates 35-1/2. We believe 42.2 is too much, and

1 this break in the line is not an uncommon pattern for
2 abnormally pressured gas reservoirs.

3 Q. And, in your opinion, on discovery, the
4 Pitchfork Ranch Atoka was an abnormally pressured
5 reservoir?

6 A. Yes, it is.

7 Q. All right. Let's look now, please, at
8 Exhibit No. 9. Please describe the information
9 reflected on this exhibit.

10 A. Exhibit 9 is a tabulation of cumulative
11 production, both gas and condensate, as of July 1,
12 1989. And we can see that the total production from
13 the reservoir, as of the 1st of July of this year, was
14 over 17 bcf, and 47 percent of that was produced by
15 the Pitchfork 34-1. Each individual well's gas
16 production is shown and its percentage of the total
17 production to date.

18 Q. All right, sir. I would ask you, while you
19 still have Exhibit 9 in front of you, to please refer
20 back to Exhibit No. 7. I want to make sure I
21 understand. Let's look specifically at the entries
22 for the Enron, Pitchfork 34-1 well.

23 If I understand these two exhibits, you
24 calculated the original gas in place for that well at
25 approximately 2.4 bcf, is that correct?

1 A. Yes, sir.

2 Q. And the cumulative recovery to July 1 of
3 1989 was already 8 bcf, is that correct?

4 A. Yes, sir.

5 Q. And that well, I believe you testified, by
6 your calculation, had recovered 47 percent of the gas
7 produced by this reservoir?

8 A. 47 percent of the gas produced to date.

9 Q. You have condensate columns?

10 A. It's recovered about 55 percent of the
11 condensate to date.

12 Q. All right, sir, let's look please, keeping
13 that in mind, at what we've marked as Exhibit No. 10.
14 Could you describe this display for us, please?

15 A. This is a graph that shows the
16 participation of the 34-1, both as a percentage of
17 drainage points in the reservoir and its production
18 from the reservoir. The black line is the percentage
19 of drainage points, it's share of the percentage of
20 drainage points. The red line is its share of the
21 percentage of the production.

22 For example, the 34-1 started production in
23 September of '83 and the reservoir was not competitive
24 until the first of '86. So, up until that point it
25 was 100 percent of the drainage points and 100 percent

1 of the production.

2 In the first of '86, when the Cox well was
3 drilled and completed, its share became 50 percent,
4 then, by definition, one out of two, 50 percent of the
5 drainage points in the reservoir and had 90 percent of
6 the production.

7 And the pattern follows on down, then. As
8 each of the successive wells were drilled, we're down
9 to the end of '88 where we have nine wells, and that
10 one-ninth is 11.1 percent, more or less, and that well
11 has 11 percent of the drainage points in the reservoir
12 and it's still producing a little over 30 percent of
13 the gas from the reservoir.

14 Q. All right, sir. Let's look, please, at
15 Exhibit No. 11. Could you describe that exhibit for
16 us, please?

17 A. This is our estimates as of July 1, 1989,
18 of reserves from the reservoir. These reserve
19 estimates were generated from a reservoir model, and
20 Case A is conditions as they are now, no proration.
21 And it would predict a reserve of 8.1 bcf for all
22 wells in the reservoir.

23 Q. And the columns on the exhibit, beginning
24 with the percent of total gas column?

25 A. Then that's each well's share of the

1 predicted remaining reserves. The 34-1 would have 30
2 percent, and the Cox would have 3 percent, and so
3 forth.

4 Q. All right, sir. Now let's look at Exhibit
5 No. 12. What's reflected on this exhibit, please?

6 A. Exhibit 12 is a tabulation of estimated
7 ultimate recovery under the Case A assumption, with no
8 proration. And this is their prediction of ultimate
9 recovery from each of the wells, and then each well's
10 proportionate share in that predicted ultimate
11 recovery. The ultimate recovery is about 25.17 bcf.

12 Q. And if I understand what we've discussed so
13 far, if we look at Exhibit No. 9 and add to each of
14 the well entries the information reflected on Exhibit
15 11, that's the total estimated ultimate recovery
16 reflected on Exhibit 12, is that right?

17 A. That's true. Exhibit 12 is a summation of
18 9 and 11.

19 Q. All right, sir. Let's look now, please, at
20 Exhibit No. 13. This exhibit reflects a Case B.
21 Could you describe what alterations were made between
22 Case A and Case B?

23 A. Case B assumes that the wells are prorated
24 on a surface acreage allocation, starting January 1 of
25 '90, and it can be compared, then, to--yes, Exhibit

1 11. 13 and 11 are comparable exhibits. Case A is
2 with no proration, Case B is with proration, that's 11
3 and 13 respectively.

4 Q. Let's look at the pool total columns on
5 those exhibits, if you would, please, 11 and 13
6 comparison. What does the institution of prorationing
7 effective 1/1/90 accomplish, in your opinion?

8 A. The difference between the recovery--total
9 recovery is about 354 million cubic feet by
10 instituting proration. That's the difference between
11 8.488 and 8.134 bcf.

12 Q. And the impact on the various wells'
13 percentage recovery of remaining reserve, what's the
14 impact?

15 A. Well, it redistributes things, obviously.
16 The 34-1, instead of having 30 percent of the reserves
17 from July 1, 1989, forward, would have 20 percent of
18 the reserves. The Cox 4-2, instead of having 3
19 percent without proration would have 5 percent with
20 proration.

21 The Diamond is slightly reduced under
22 proration. The rest of them mostly go up, I believe;
23 the exception, perhaps, is the Meridian 4-2, the last
24 well. Its share of reserves goes down from 14.4 to
25 12.6.

1 Q. All right. Let's look, please, at Exhibit
2 No. 14. Could you describe this exhibit for us,
3 please?

4 A. Exhibit 14 is a summation of 9 and 13, and
5 this is estimated ultimate recovery from the
6 reservoir, assuming proration effective 1/1/90.

7 Q. Comparing this exhibit to Exhibit No. 12,
8 once again it reflects approximately 354 million
9 additional cubic feet of gas, is that correct?

10 A. Yes, it does.

11 Q. And, once again, you have taken the
12 cumulative production and the estimated remaining
13 recoverable reserves and recalculated the percentage
14 of each well's recovery, is that correct?

15 A. That's correct.

16 Q. All right, sir. Let's look please now at
17 Exhibit No. 15. Could you describe this exhibit for
18 us, please?

19 A. Exhibit 15 is a rate-time presentation in
20 MCF per day versus time. The black line is a
21 historical production from the reservoir from
22 September of '83 until July 1 of '89. The blue line
23 is the forecasted production schedule for the no
24 proration case. The red line is a forecasted
25 production schedule for the proration case effective

1 1/1/90.

2 Q. Once again, this reflects additional
3 recovery reserves under Case B, is that correct?

4 A. Yes. The difference between those curves
5 is 354 million.

6 Q. Let's look please at what we've marked as
7 Exhibit No. 16. Exhibit No. 16 is a summary of data
8 previously presented, is that correct?

9 A. Yes, sir. The first column, of course, is
10 the well identification, and the second column is the
11 percent of developed acreage. That's one-ninth all
12 the way through, 11.1 percent.

13 The second numerical column is the percent
14 of original gas in place for the developed acreage.
15 The next column is Case A. That last column is
16 Exhibit 7, in essence. The next column is Exhibit
17 12. That's case A. That's the EUR. It's each well's
18 percentage of ultimate recovery without proration.
19 And then the last column is our Case B with proration,
20 each well's estimated ultimate recovery, percentage of
21 the reservoir total with proration.

22 Q. Mr. Ausburn, I would ask you, after your
23 study of the Pitchfork Ranch-Atoka Gas Pool, do you
24 believe that the institution of surface acreage based
25 proration for this pool would result in the recovery

1 of additional reserves and, therefore, prevent waste
2 of natural resources?

3 A. Yes, I do.

4 Q. Looking particularly at the summary set
5 forth on Exhibit 16, do you believe that the
6 institution of surface acreage based proration in the
7 Pitchfork Ranch-Atoka Pool would operate to more
8 effectively protect the correlative rights of various
9 interest owners and various wells within that pool?

10 A. It would help protect them. It would
11 mitigate the correlative right problem.

12 Q. It comes close?

13 A. It comes close, sir.

14 Q. Do you have anything further at this time,
15 Mr. Ausburn?

16 A. No, sir.

17 MR. PEARCE: At this time, Mr. Examiner, I
18 would like to submit an Affidavit of Notice of this
19 proceeding that I have completed, which reflects
20 mailing of a copy of the application and notice of
21 hearing to certain parties, and I would move the
22 admission of Exhibits 1 through 17 to this
23 proceeding.

24 HEARING EXAMINER: Are there any
25 objections?

1 MR. CARR: No objections.

2 HEARING EXAMINER: Exhibits 1 through 17
3 will be admitted into evidence.

4 MR. PEARCE: I have nothing further of the
5 witness at this time, Mr. Examiner.

6 HEARING EXAMINER: Thank you, Mr. Pearce.
7 Mr. Carr, your witness.

8 MR. CARR: Thank you.

9 EXAMINATION

10 BY MR. CARR:

11 Q. Mr. Ausburn, if I could direct your
12 attention, we'll just start with Exhibit 1, okay? Are
13 you familiar with the rules governing the development
14 of this pool as they relate to spacing and well
15 locations?

16 A. I know that there are regulations about
17 distances from blinds, perhaps? This is what you
18 mean?

19 Q. Yes. Do you know whether or not any of the
20 wells are at unorthodox locations as they apply to
21 those rules?

22 A. Not to my knowledge.

23 Q. So they would all be at standard locations?

24 A. As far as I would know, yes, sir.

25 Q. How much acreage is supposed to be

1 dedicated to each well in this pool, do you know?

2 A. I don't know. They're drilling 320 acres.
3 I presume 320 acres.

4 Q. Does each well in the reservoir have 320
5 acres dedicated to it?

6 A. As far as I know.

7 Q. If we go to Exhibit No. 2, if I can find
8 it, this sets out the chronological development of
9 wells completed in the pool, isn't that correct?

10 A. Yes, sir.

11 Q. There was other drilling in the area that
12 is not reflected on this exhibit, is that not true?

13 A. Wells for other reservoirs?

14 Q. Or for the Atoka in this area?

15 A. Perhaps, yes.

16 Q. Have you reviewed information on the well
17 located in the east half of Section 34?

18 A. Yes.

19 Q. That, in fact, was projected as an Atoka
20 well, was it not?

21 A. I don't know what it was proposed for. I
22 know the Morrow was an objective, also. I would
23 presume that it would be.

24 Q. Do you know who drilled that well?

25 A. Enron, I believe.

1 Q. Do you know when it was drilled?

2 A. In April of '84, about.

3 Q. So there was a well that was drilled by
4 Enron between the first well shown on this list and
5 the second one, but it wasn't completed in the
6 reservoir?

7 A. That's true.

8 Q. It's not your intention to indicate that
9 this shows all the efforts to develop the pool, just
10 those that were successful?

11 A. That's true.

12 Q. If we look at your Exhibit No. 3, this is
13 your isopach. This is a fairly standard presentation,
14 I believe. Is it fair to say that the pool limits are
15 fairly well-defined in this area?

16 A. I think they're fairly well-defined.
17 Certainly I consider this good geologic control. We
18 have so many penetrations. There are still areas of
19 some uncertainty perhaps to the west; but within the
20 confines of the developed acreage it's well-defined.

21 Q. All right. If we were to go to Exhibits 9
22 and 7, could you tell me what the first figure after
23 the entry for the Enron Pitchfork 34 Fed. Com. No. 1
24 well is, I guess that's 2,383.4 thousand? What does
25 that number indicate?

1 A. That's the gas in place.

2 Q. At what time?

3 A. Originally. Original gas in place. OGIP,
4 original gas in place, excuse me.

5 Q. If we take that and compare it to Exhibit
6 No. 9, what you're showing here with these two
7 exhibits is that to date the 34 Com. No. 1 has been
8 able to produce more than the original gas in place?

9 A. Yes, sir.

10 Q. That's the intent of those two exhibits?

11 A. That's one thing that you can draw from
12 this, yes.

13 Q. What are the other things you're trying to
14 show with this? Your real concern is the 34 No. 1, is
15 it not?

16 A. That's true.

17 Q. The other wells don't pose a problem?

18 A. 34-1 is the major problem.

19 Q. Are there other wells here that would, in
20 your opinion, look like major problems in this
21 reservoir?

22 A. No, sir.

23 Q. The Enron, Diamond No. 5 doesn't look like
24 another problem well to you?

25 A. It's the closest to getting--let me see,

1 that has 11.1. It has 14.5 of the total. It's
2 slightly better than its share, yes.

3 Q. And this would be based on the original gas
4 in place?

5 A. On the original gas in place.

6 Q. You're not suggesting that when we prorate
7 we take into account what was originally there, are
8 you? You're only going from this time forward with
9 your proposal?

10 A. We're going from this time forward.

11 Q. From that prospective, would the Diamond
12 Fed. No. 5 be a problem that needs to be addressed
13 with a prorationing application?

14 A. I think all the wells would share, then, as
15 their surface acreage would indicate.

16 Q. If we look at Exhibits 11 and 13, if I
17 understand these, Exhibit No. 11 shows the estimated
18 reserves as of July 1 of this year with no
19 prorationing, the Exhibit No. 13 shows the reserves if
20 prorationing is in fact in place or implemented, is
21 that correct, on 1/1/90?

22 A. Yes.

23 Q. Now, when you say "estimated reserves," do
24 you mean what is under the tract or what will be
25 recovered?

1 A. What will be recovered from that well bore.

2 Q. Did you estimate what would, in fact, be
3 under those tracts today?

4 A. No.

5 Q. So you don't know what would be there as of
6 1/1/90, I guess?

7 A. We could compute that, I presume, but, no,
8 we do not have that.

9 Q. If you look at Exhibit No. 14, this shows
10 the estimated ultimate recovery if in fact
11 prorationing is implemented, isn't that right?

12 A. Yes.

13 Q. And this shows, in fact, a redistribution
14 of production from the 34 No. 1 to other wells in the
15 pool?

16 A. Yes, sir, it does.

17 Q. And isn't the real concern that you're
18 presenting here today the fact that there appears to
19 be drainage to the 34 No. 1 from offsetting wells, and
20 prorationing would redistribute some of that
21 production?

22 A. Prorationing would redistribute some of
23 that production.

24 Q. That is now going to the 34-1?

25 A. Yes.

1 Q. And the problem there is it is just
2 draining more than the acreage assigned to it, in your
3 opinion?

4 A. Yes.

5 Q. Now, you indicated that in the past you
6 haven't been called on to apply engineering factors to
7 the New Mexico prorationing system, is that correct?

8 A. That's correct.

9 Q. In preparing for the hearing today, did you
10 review the Acts and the rules and regulations
11 governing prorationing in this state?

12 A. I read through some of the literature
13 available. I do not pretend to be an absolute
14 authority on that.

15 Q. Are you aware of the factors that have
16 traditionally been considered in implementing
17 prorationing in New Mexico?

18 A. I know that there are two major elements,
19 it appears, correlative rights and additional recovery
20 or the avoidance of waste.

21 Q. Are you aware of the current takes from
22 this reservoir by the purchasers of gas from this
23 reservoir?

24 A. No.

25 Q. You don't have any information on the

1 volumes that are being taken from the Meridian well as
2 compared to the other wells?

3 A. We have the production. I don't know who
4 the production is going to, but we do have the
5 production.

6 Q. Have you seen any evidence in this review
7 of the production that would suggest that there has
8 been any curtailment of production due to absence of
9 market?

10 A. I think the wells were shut-in because of
11 price, but perhaps not because of absence of market.

12 Q. Do you have an opinion as to whether or not
13 there is a market for all the gas that can be produced
14 from this reservoir, or do you know?

15 A. I do not know.

16 Q. Now, as you have reviewed this data and
17 made your study of the reservoir, have you encountered
18 anything which you would consider improper operating
19 practices on the part of any operator on the
20 reservoir?

21 A. No.

22 Q. Is there anything you can point to that
23 would suggest that Enron hasn't operated the wells in
24 the reservoir as a prudent operator?

25 A. No.

1 Q. Are the wells being produced basically at
2 capacity, or do you know that?

3 A. I believe they are essentially at capacity.

4 Q. Are you aware of whether or not compression
5 has been added to the wells in the reservoir?

6 A. It's my impression that it has not.

7 Q. Has not?

8 A. Has not.

9 Q. Are you aware of any well in the pool that,
10 in fact, has had its ability to produce restricted in
11 any fashion by the operator of the well?

12 A. I have some questions about the Cox, Vaca
13 Ridge well. I'm not sure what's going on there. I
14 don't know specifically of any problems.

15 Q. Are you aware of any efforts or anything
16 that has been done to restrict the producing rate of
17 the 34-1 well?

18 A. No.

19 Q. Were you asked to look into any other
20 potential remedies for this perceived problem, other
21 than prorationing?

22 A. No.

23 Q. When you look at the wells in the
24 reservoir, clearly the 34-1 is the best well?

25 A. Yes.

1 Q. And I think during your direct examination
2 you talked about, if I can find it--an abnormally
3 pressured reservoir. What did you mean by that?

4 A. Reservoir pressure that would be higher
5 than the normal hydrostatic gradient.

6 Q. Would that be confined to any portion of
7 the reservoir or would it be throughout the reservoir
8 that you would find this pressure anomaly?

9 A. The whole reservoir was initially
10 abnormally pressured.

11 Q. When you look at the 34 No. 1, from its
12 ability to produce, is the best well in the reservoir
13 clearly?

14 A. Yes, sir.

15 Q. What, from a reservoir point of view, what
16 do you think causes that as opposed to, say, the
17 offsetting wells in Section 33?

18 A. Its permeability.

19 Q. And it continues to have the better
20 permeability, does it not?

21 A. Yes.

22 Q. Even if we prorate it, it will continue to
23 have a greater permeability and the corresponding
24 higher deliverability because of that, will it not?

25 A. Yes.

1 Q. Now, in recommending prorationing, have you
2 run out or estimated exactly the impact of
3 prorationing on every well? I gather you have from
4 this?

5 A. Yes.

6 Q. What sort of data did you use in making
7 this comparison, or in making this estimation? Did
8 you use actual production information?

9 A. Yes.

10 Q. Did you have actual pressure information?

11 A. Yes.

12 Q. In making your calculation of what would
13 occur after prorationing was implemented, did you
14 redistribute the pressure along with working with the
15 production information?

16 A. We curtailed the production or normalized
17 the production so that each well was limited to
18 one-ninth of the production from the reservoir.

19 Q. When you do that, there would be pressure
20 redistribution in the reservoir?

21 A. There is, yes.

22 Q. Did you take that into account in your
23 calculations?

24 A. Yes.

25 Q. Do you have those calculations with you?

1 A. Not in exhibit form. I do have some
2 information available.

3 Q. Could we see those calculations?

4 A. Okay. I have--okay.

5 HEARING EXAMINER: Do you want to go off
6 the record until he gets that?

7 MR. CARR: Yes.

8 (Thereupon, there was a discussion
9 off the record.)

10 HEARING EXAMINER: Let's go back on the
11 record. Mr. Carr?

12 Q. [BY MR. CARR] Mr. Ausburn, do you have
13 some information there that would show how you
14 actually calculated these reserves?

15 A. I have our model output runs that I don't
16 have copies of, but you're welcome to look through
17 them. There might be one way I could maybe summarize
18 it for you. This is not part of the calculation as
19 the end results, but what this is, it's the pressures,
20 grid-block pressures at the end of whenever the eighth
21 well goes off of production.

22 Q. All right. Let's see what you have. Tell
23 us what you have here.

24 A. Okay. These are model runs from those
25 two. It's a PC model.

1 HEARING EXAMINER: Hold it. Let's go back
2 to our seats.

3 MR. STOVALL: Mr. Carr, we have a concern
4 here, and Mr. Pearce. Is this going to become an
5 exhibit to which we're going to refer?

6 MR. CARR: I think we will move that it be
7 marked and admitted as Exhibits 18 and 19. There are
8 two pages. We think it out to be in the record when
9 they're putting these totals out. We think we should
10 be able to look at calculations and data that was used
11 as input getting to that end. For that reason I
12 don't have much in the way of cross-examination. I
13 would just like to see what they have done to deal
14 with pressure redistribution in the reservoir, and
15 would like to have them put in whatever information
16 they've developed and are relying on in the
17 calculations that they've used to project that.

18 MR. STOVALL: A little bit of concern with
19 how this is going to get in. I'll let you proceed.
20 I'm going to recommend the Examiner let you proceed at
21 the moment, but we're going to watch the process so
22 that we don't end up building an exhibit and then--

23 MR. CARR: Just so you know, they've given
24 us exhibits that have conclusions in it. To
25 cross-examine them, we need to look at the

1 calculations or the approach that went into this. We
2 would move to strike their exhibits if we can't look
3 at the supporting data. That's all we're asking for
4 is just a chance to see how they reached these
5 conclusions, instead of just accepting them in the
6 dark.

7 MR. STOVALL: I have no problem with that
8 concept. It's making them in such a way that the
9 record works when you do so.

10 MR. CARR: Well, and I might even shorten
11 it.

12 Q. [BY MR. CARR] Mr. Ausburn, the two sheets
13 you've handed to the Examiner, are these the results
14 of your modeling?

15 A. Those are part of the output.

16 Q. What do these show you?

17 A. They show the grid-block pressures at a
18 point in time.

19 Q. When we say "at a point in time," what
20 point in time are we talking about?

21 A. There will be a different point in time for
22 each one.

23 Q. For each of the points on these exhibits?

24 A. No, for each of the exhibits.

25 Q. Let's look at what is called Case A, and I

1 would ask you, what point in time does that reflect?

2 HEARING EXAMINER: We're still getting into
3 a strange situation. I'll tell you what. Are there
4 any objections to making these an exhibit, Mr.
5 Pearce? Why don't we just shut down right now and
6 make copies of these so I can follow them, Mr. Carr
7 can follow them and you may follow them.

8 MR. PEARCE: That would be fine.

9 HEARING EXAMINER: Let's go off the record
10 again for as long as it takes to make copies.

11 (Thereupon, a recess was taken.)

12 HEARING EXAMINER: This hearing will come
13 to order. Mr. Carr?

14 MR. PEARCE: May I, Bill?

15 MR. CARR: You bet.

16 MR. PEARCE: Mr. Examiner, if I may just
17 for the record, I would like to introduce what we've
18 marked and distributed copies of Parker Exhibits 18,
19 19 and 20 to this proceeding.

20 Exhibit No. 18 is labeled Case A in the
21 upper right-hand corner in handwriting. Exhibit 19 is
22 labeled Case B in the upper right-hand corner, and
23 Exhibit No. 20 is a graph that says Field Total,
24 Pitchfork Ranch (Atoka) Field/Lea County, New Mexico,
25 simply by way of introduction, Mr. Examiner. I

1 apologize, Mr. Carr.

2 MR. CARR: We have no objection to the
3 admission of these exhibits.

4 HEARING EXAMINER: Exhibits 18, 19 and 20
5 will be admitted into evidence at this time.

6 Mr. Carr?

7 Q. [BY MR. CARR] Mr. Ausburn, could you tell
8 me what Exhibit 18 is?

9 A. 18 is the pressures predicted in the
10 reservoir at 4,180 days after September 1983.

11 Q. And September 1983 is the day that the 34-1
12 initially produced?

13 A. That's the initial production from the
14 reservoir.

15 Q. What is 4,180 days, approximately? Have we
16 gotten there yet?

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

18 MR. HELMS: 11 and a half years.

19 A. Thank you. Okay. Yes, 11 and a half
20 years.

21 Q. So that would be 1995 sometime, then. Why
22 is that date significant?

23 A. That is the date when the Penn ultimate
24 well goes off production.

25 Q. This is the date of the last production

1 from the reservoir?

2 A. No, the date that the next to the last well
3 goes off production.

4 Q. Why did you select that?

5 A. Because, from that point forward, this is
6 whatever can be recovered from the reservoir at this
7 point has to be recovered, by definition, from the
8 34-1.

9 Q. What is the date for Exhibit No. B? And I
10 assume this is the same sort of information at another
11 date?

12 A. Yes. This is in a Case A, with no
13 proration. And Case B is with proration.

14 Q. These are at the same date?

15 A. No, because of the proration the date is
16 different. This is at 4,899 days, which is 13.42
17 years from 1983.667, the year 1997.08.

18 Q. So we have basically a longer producing
19 life without prorationing?

20 A. Yes, sir.

21 Q. What we're looking at, we're looking at the
22 existing--is this a bottom-hole pressure figure?

23 A. These are reservoir pressures.

24 Q. These figures, these numbers, are what?

25 A. These are reservoir pressures.

1 Q. So what we have here are the pressures--are
2 these the figures that--is this output information
3 from your modeling study?

4 A. This is output.

5 Q. And this tells you with or without
6 prorating how much pressure would be left in each
7 of these wells at that time?

8 A. This is true. At the point of these two
9 figures it would be on the west side of the reservoir
10 particularly. We have gas trapped at a higher
11 pressure in the Case A, no proration scenario.
12 Therefore, more gas.

13 Q. Now, if we look at the figures for the
14 34-1, without prorating at the time the 34-1 is the
15 only well left producing in the reservoir, without
16 prorating, its reservoir pressure would be 1884, is
17 that right? There's a 1900 above it.

18 A. No, I'm sorry. Without proration?

19 Q. Yes.

20 A. That would be Case A, that's Exhibit 18?

21 Q. Case without proration is Case A?

22 A. Yes.

23 Q. Then I have those reversed; so the pressure
24 would be 1788, is that right?

25 A. Yes.

1 Q. With prorationing, at the time the next to
2 the last well goes off, it's 1884?

3 A. Yes, sir.

4 Q. Now, my question really is, this is the
5 output information. What do you put into your model
6 study to get to this point?

7 A. The porosity and saturation data contained
8 on Exhibit 4, I think.

9 Q. Do you do that absent current pressure
10 information?

11 A. No. You code the reservoir up and describe
12 it in its initial conditions and then match the
13 performance of the reservoir with your model
14 calculations.

15 Q. How many times did you have to run this to
16 get a match?

17 A. I don't know. Several, I'm sure.

18 Q. More than several? More than three?

19 A. More than three, I imagine.

20 Q. Is there any particular information--

21 A. The major thing to be changed is
22 permeability.

23 Q. When you change permeability, do you change
24 it by each of the grids or each of the squares?

25 A. Yes.

1 Q. What permeability changes did you make?

2 A. This took many days to do. I couldn't
3 begin to describe. I have a permeability map from the
4 final match.

5 Q. What we're getting here is just the result
6 of your modeling, not the input factors?

7 A. Yes. And the input factors would be the
8 porosity and water saturation and thicknesses.

9 Q. And you used various ones of those until
10 you got a match?

11 A. The major changes were in the permeability.

12 Q. You changed the permeability until you
13 actually got the match?

14 A. Yes. Maybe that would be a time to talk
15 about Exhibit 20.

16 Q. All right. Let's look at Exhibit 20. What
17 does Exhibit 20 show you?

18 A. Simply put, Exhibit 20, then, is a
19 rate-time presentation of the actual reservoir
20 production to our model, and this is our final run
21 from which the projections were made.

22 Q. This shows actually that you were able to
23 reach a match?

24 A. Yes.

25 Q. Do you know what permeability factors you

1 were assigning to the 34-1 in making this match?

2 A. My guess is about nine millidarcies.

3 Q. Do you have actual information that
4 establishes that nine millidarcies is the permeability
5 for that well?

6 A. That's the permeability that matches this
7 performance, yes.

8 Q. Is that the permeability from the data on
9 the well itself? Does it match that information?

10 A. We have no actual permeability data from
11 the well, as I recall.

12 Q. So you're just estimating what that would
13 be?

14 A. The initial permeabilities were estimated
15 from the open-flow tests, a regression analysis of the
16 open-flow test, and from this we were able to get a
17 starting permeability.

18 Q. If you had a permeability a little bit high
19 on the 34-1 and a little bit low on the 33-4, you
20 might also get a similar match, isn't that true?

21 A. No, no.

22 Q. It wouldn't work that way?

23 A. It wouldn't work that way.

24 Q. How accurate is your model? Do you have a
25 percent of error that you factor into this?

1 A. It has about four percent. It all depends
2 how you describe the error. The incremental error per
3 time step is very small. The cumulative error over
4 some almost 20 years, 25 years, is about four, five
5 percent.

6 Q. So we could have a four or five percent
7 error and that would account for the differences in
8 the--I guess they're the reserves that are shown on
9 the Case A, which is your Exhibit 11, no
10 prorationing? You have a total, I guess it's
11 remaining reserves, of 8,134.160?

12 A. That sounds right, yes, sir.

13 Q. And if we go with your Case B with
14 prorationing, you come up with a reserve figure of
15 8,488.864. So, is that just an indication of the
16 range of error in this modeling?

17 A. No, sir, I believe it's a real shift.

18 Q. Go on.

19 A. Because the model, we're looking for a
20 qualitative shift under different situations. It's
21 the same model and the same data, just different
22 operating conditions.

23 Q. And you're talking not about reserves in
24 place, but recoverable reserves?

25 A. Recoverable reserves. And that difference,

1 I think, is about four and a half percent.

2 Q. And when you take this, there is a
3 difference of approximately 355 million, and when you
4 compare that to, if I understood your 34 approximately
5 bcf in place, you get just a one-percent variation in
6 there, isn't that right?

7 A. I think the ultimate recovery predictions
8 differ by 1.4 percent.

9 Q. All right. When I talk about ultimate
10 recovery, there's a variation in the ultimate recovery
11 figures of 1.4 percent and that is with prorationing
12 and without prorationing?

13 A. That's right, and with a variation in the
14 reserves of 4.4 percent.

15 Q. Okay. And with 4.4 percent on the
16 reserves?

17 A. On the reserves.

18 Q. Now, if we look at Exhibit 16?

19 A. Okay.

20 Q. This is entitled, "Atoka Reservoir
21 Pitchfork Ranch Field Summary, Percent of Developed
22 Acreage," and you have given 11.11 percent to each of
23 the nine wells in the unit, is that right?

24 A. Yes, sir.

25 Q. I understood you to say that you had

1 redistributed the reserves in making your initial
2 model to put one-ninth in each of the wells. Was that
3 incorrect?

4 A. No, I did not do that.

5 Q. What is the purpose of averaging and giving
6 one-ninth of the developed acreage to each of these
7 wells?

8 A. This is just the percent of developed
9 acreage.

10 Q. They all are 320 acres and developed?

11 A. Yes, they're all 320 acres. It's not all
12 productive in every instance, by our interpretation,
13 but service acres, they're all equal.

14 Q. When we take a look at how you went about
15 projecting the impact of prorationing on the pool,
16 didn't you initially assign one-ninth of the reserves
17 to each of the wells? Isn't that what you said?

18 A. No.

19 Q. You broke something up by one-ninth. Was
20 it just the division of the surface acreage?

21 A. That's all.

22 Q. Nothing else?

23 A. The gas deliverability, you divided that
24 one-ninth by each well, in order to estimate a
25 limiting production per year, yes.

1 Q. There are wells in there that won't make
2 one-ninth of the total deliverability, isn't that fair
3 to say?

4 A. That's possible, yes. We redetermine that
5 each year.

6 Q. Now, when I look at the pressure
7 information that you've depicted on Exhibit 8-A--

8 A. Here it is. I've got it.

9 Q. --if there's an asterisk in front of the
10 number, that is an actual measured pressure?

11 A. Yes, sir.

12 Q. If there is not, then that is a computed
13 pressure?

14 A. Yes, sir.

15 Q. If I look at this, there are only two
16 pressures utilized for the Pitchfork 34-1, is that
17 right? There at the top, they're the first three
18 entries plus the fifth. There are four of them.

19 A. Yes, the first three entries.

20 Q. When you utilize pressure information on
21 the Pitchfork 34-1, did you utilize that 9/1986 figure
22 or did you adjust that as you went forward
23 anticipating further pressure to climb?

24 A. I'm not sure I understand the question.
25 I'm sorry.

1 Q. Were these figures utilized by you in doing
2 your model study?

3 A. Not in the model. They were helpful in
4 determining the original reservoir pressure.

5 Q. That's all you utilized them for?

6 A. They were used to develop 8-2, the POZ
7 plot.

8 Q. There was nothing in terms of this pressure
9 information that would have found its way into your
10 model study?

11 A. We used this as a guide to see how the
12 pressures degreed with different time steps.

13 Q. Now, if I understand it, you're
14 recommending that prorationing be implemented in the
15 Pitchfork Ranch-Atoka Gas Pool on 1/1/90. When that
16 happens, how do you propose that it work? Would all
17 wells be classified as nonmarginal going into the
18 prorationing period?

19 A. Yes.

20 Q. And then would they go in with a zero
21 status or an over- or underproduced status?

22 A. I would not know on the particulars.

23 Q. Have you estimated how long it would take
24 for certain wells to be reclassified in the
25 prorationing system?

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

2 Q. Did you make any estimate of how many
3 marginal or nonmarginal wells would ultimately result
4 by going through this process?

5 A. I don't have the numbers in front of me.
6 The man that ran the model knew that there were
7 several. I'm aware that there's a couple, probably,
8 that are marginal.

9 Q. That are marginal?

10 A. That would be soon.

11 Q. Do you know ultimately how many marginal
12 and nonmarginal wells would, in fact, be in this pool?

13 A. No.

14 Q. Wouldn't you need to know that if you were
15 to estimate how prorationing was really going to
16 affect the overall production?

17 A. Well, what we did do, we did it on one-year
18 time steps. We ran a full year at capacity and then
19 took one-ninth of that, and then, for a period of a
20 year we left that as a maximum production permissible
21 from any one well, even though some wells perhaps
22 might not make that. After that year is over with,
23 the withdrawals that actually came out from the model,
24 we then redetermined the deliverability. So we
25 redetermined once a year.

1 Q. You've redetermined deliverability, not how
2 the wells would be classified under a prorationing
3 system, is that right?

4 A. That's true.

5 Q. Have you reviewed, in preparing this
6 presentation, prior cases concerning prorationing in
7 New Mexico?

8 A. No, sir.

9 Q. You are recommending that prorationing be
10 implemented on a straight acreage basis, isn't that
11 correct?

12 A. Yes.

13 Q. Based on your modeling of this reservoir,
14 is it possible for you to determine current
15 recoverable reserves under each tract, each of the
16 nine tracts that have wells on them in the pool?

17 A. Some of the wells are in current reserves
18 now, but are not on the tract.

19 Q. They would be on the tract today, would
20 they not?

21 A. They would be on the tract today as they go
22 into the well bore, yes, sir.

23 Q. Could you determine what would be the
24 recoverable reserves under these tracts with the data
25 that you have, within reasonable engineering

1 limitations?

2 A. In other words, the amount of gas
3 underneath each tract?

4 Q. As of this time.

5 A. Yes, that could be done.

6 Q. That would be practicable for you to do?

7 A. Yes, that could be done, I believe.

8 Q. Within reasonable--I mean, there are always
9 some variations, but within your discipline?

10 A. Uh-huh.

11 Q. Could you also do that on, say, determine
12 the deliverability of each well? You can do that,
13 certainly, on all the wells in the pool?

14 A. Yes.

15 Q. Could you base prorationing on the well's
16 deliverability? Is that a possible way to go in
17 allocating production?

18 A. That's a possible way to go.

19 Q. Could you determine gas in place at this
20 time under those tracts--each of the tracts in the
21 pool?

22 A. Yes.

23 Q. Do you have an estimate of what the total
24 gas in place in the pool would be?

25 A. Now?

1 Q. Yes. Could you estimate that? I don't
2 want you to do it now. I'm just asking if that is
3 something you could do.

4 A. Yes.

5 Q. As an engineer you could do that?

6 A. Yes.

7 Q. You could get the total recoverable
8 reserves in the pool? You could practicably do that,
9 too, couldn't you?

10 A. And we have done that, yes.

11 Q. And so any of these other methods would be
12 possible ways to prorate the pool, isn't that right?

13 A. They are possible ways.

14 Q. You have the data to make the engineering
15 determinations to do that, if that's what you were
16 asked to do?

17 A. Yes.

18 Q. Now, have you made any calculations or
19 estimates of what impact prorationing would have on
20 the short-term ability of the well to deliver--I'm
21 sorry. Strike that.

22 Have you made any estimate of what impact
23 prorationing would have on the short-term ability of
24 the prorationing on this pool's ability to deliver
25 gas? Would it have it immediately increase or

1 decrease the producing capability, or do you know?

2 A. It would decrease.

3 Q. And why would that happen?

4 A. Because the wells are restricted to
5 one-ninth of the current total deliverability.

6 Q. Every well that now can produce more than a
7 ninth would be restricted?

8 A. That's true.

9 Q. There's a market for all the gas that's
10 currently being produced, isn't that right?

11 A. Insofar as I know.

12 Q. And so there would be just more additional
13 market during the period than if prorationing went
14 into effect on the short-term basis?

15 A. I'm sorry?

16 Q. If the production is down and the market
17 stays the same, there is just more excess market in
18 this area?

19 A. I guess you could put it that way, yes.

20 Q. Or you can put it however you'd like.

21 Now, let me ask you this: The real concern
22 seems to be with drainage from the No. 34 well. If we
23 prorate, as you propose, that is going to reduce the
24 amount of drainage to the 34 from the immediately
25 offsetting tracts, isn't that correct?

1 A. Yes.

2 Q. Do you know of any precedent where
3 prorationing has been utilized in New Mexico to
4 compensate for drainage to better wells in a
5 reservoir?

6 A. I'm not aware of any.

7 Q. Now, if our objective in this reservoir is
8 to use prorationing to limit drainage to a better
9 well, it would be fair to say that the Enron, Diamond
10 5, is one of the better wells in the pool, too, isn't
11 that right?

12 A. It is.

13 Q. So to prorate, it might be wise to restrict
14 that well also, to prevent drainage to it from the
15 offsetting properties, isn't that correct?

16 A. Yes.

17 Q. If we go to the Meridian well which is
18 also, from these exhibits, seems to be the Pitchfork 4
19 Fed. No. 2, that appears to be one of the better
20 wells. So to deal with drainage to a better well,
21 that well might also need to be restricted, if we're
22 dealing just with the drainage question?

23 A. If we're dealing just with the drainage
24 question, yes.

25 Q. Now, if we go down, we get some wells that

1 are not quite as good but still appear to be better
2 wells in the pool. Say, the Madera 33-4, I think,
3 would be one of the better wells. If we're
4 trying--and maybe you can give me--I'm trying to take
5 these in reverse order, Mr. Ausburn, just going best
6 to worse.

7 It looks to me like perhaps the Enron, Page
8 3 Com. No. 1 would be, if we're going in reverse
9 order, would be about the fourth best well in the
10 pool? And I won't go through all of them.

11 MR. STOVALL: That's good, Mr. Carr.

12 Q. But if we take, say, the Enron, Page 3 Com.
13 No. 1, that's also better than the offsetting wells,
14 and we're trying to prevent drainage to it, we might
15 restrict that well, too? Isn't that fair to say?

16 A. Are we trying to prevent drainage, too?
17 We're also concerned about correlative rights but
18 we're trying to promote additional recovery from the
19 reservoir also.

20 Q. But in terms of the correlative rights
21 question, aren't we trying to protect the reservoir,
22 protect offsetting tracts from drainage to the 34-1?

23 A. Yes, from all other wells, yes.

24 Q. Yes, and if we take that logically and move
25 through these wells, the same test would have to apply

1 to the Diamond Fed. No. 3, isn't that right?

2 A. Yes.

3 Q. And then to the Meridian, Pitchfork No. 4,
4 isn't that correct, because it's better than the
5 offsets?

6 A. Those are the two stronger wells besides
7 the 34-1.

8 Q. And then we get to the third strongest
9 well, whatever it is, say it's the Page 3 Com. No. 1,
10 we would have to do the same with it, isn't that
11 true? If we're trying to protect from drainage to the
12 better wells from the poorer wells, we have to
13 continue to limit better wells that are offset by
14 poorer wells, isn't that right?

15 A. I'm not sure how this number compares to
16 its gas in place, to tell you the truth.

17 Q. If we take this principle and go forward
18 with it, it can't just apply to the Madera 34-1, it
19 has to apply to the other better wells that are
20 benefitting at the expense of their neighbor, isn't
21 that right?

22 A. It would apply to all of the wells.

23 Q. If it applies to all of the wells, then, in
24 fact, aren't we having to look to the worst well in
25 the pool to protect it from the better wells that

1 offset it, if we're just looking at using prorationing
2 to protect correlative rights?

3 A. If we're just looking to protect
4 correlative rights?

5 Q. Yes.

6 A. I think they ought to be limited by the
7 amount of gas available to each drainage
8 well--drainage point. But we're long past that
9 situation now.

10 Q. If we're looking at just drainage and we're
11 trying to protect everyone from the 34-1, and we take
12 that to its conclusion, we have to go to the worst
13 well in the pool and say we want to protect it from
14 the better wells that are draining from it, isn't that
15 right?

16 A. Within reason, within reason, but as long
17 as that well is capable of producing its share.

18 Q. All right. As long as it's capable of
19 producing?

20 A. Yes.

21 Q. Now, I am going to ask you some questions
22 that you may not know anything about and you can
23 escape by saying so.

24 In your work on this project, Mr. Ausburn,
25 have you become aware of what interest Parker Drilling

1 actually has in any of these properties?

2 A. Vaguely.

3 Q. Do you know how that interest was acquired?

4 A. Not well, no.

5 Q. Do you know the term of that ownership
6 interest, if there is one?

7 A. No.

8 Q. Have you seen any of the documents
9 concerning the acquisition of the interest?

10 A. No, sir.

11 Q. So it's fair to say you don't know the
12 details of how they acquired them?

13 A. No, I don't know the details.

14 MR. CARR; Then that's all I have. Thank
15 you.

16 MR. PEARCE: May I, Mr. Examiner?

17 MR. STOVALL: Let's give Ms. Callahan a
18 chance to cross-examine.

19 MS. CALLAHAN: I'll pass right now.

20 MR. STOVALL: Did you want to enter your
21 appearance?

22 MS. CALLAHAN: Yes, I do. I would like to
23 enter an appearance for Robert Landreth.

24 HEARING EXAMINER: Are there any
25 objections?

1 MR. PEARCE: No objection.

2 MR. CARR: No objection.

3 MS. CALLAHAN: He's entering in opposition
4 to the application.

5 HEARING EXAMINER: Thank you, Ms.
6 Callahan. Mr. Pearce?

7 FURTHER EXAMINATION

8 BY MR. PEARCE:

9 Q. A couple of matters briefly, just for
10 clarification of the record, if I may. During his
11 cross-examination, Mr. Carr referred a couple of times
12 to the Page 3-1 well. I would ask you to refer to
13 your Exhibit 1 or some other well listing, and let's
14 just make sure that the well at issue in the
15 Pitchfork-Atoka Ranch Pool is the Page 3 Well No. 2?

16 A. Yes.

17 Q. Similarly, Mr. Carr referred to the Madera
18 34 Well No. 1, and I believe that should be the Madera
19 33-4 well, is that correct?

20 A. There is a 33-4, yes.

21 Q. And is there a Madera 34-1?

22 A. No, there is not.

23 Q. With that out of the way, a couple of
24 things. Mr. Carr, several times during his
25 cross-examination, had you answer questions as if the

1 protection of correlative rights were the only matter
2 at issue in this proceeding. Do you recall that?

3 A. Yes, sir.

4 Q. In your opinion, is that the only matter at
5 issue in this proceeding?

6 A. No, sir.

7 Q. Similarly, Mr. Carr looked at some
8 percentages with you and he calculated that the
9 increase in estimated ultimate recovery from the
10 institution of prorationing in this pool was 1.4
11 percent. Do you recall that?

12 A. Yes, sir.

13 Q. But, in fact, the estimated ultimate
14 recovery is simply your calculation of remaining
15 recovery plus the historical cumulative production, is
16 that correct?

17 A. That's true.

18 Q. So the additional 354 or 355 million cubic
19 feet is, in fact, an increase in the estimated
20 remaining recoverable reserves, is that correct?

21 A. That is true.

22 Q. And that comes out to about 4.4 percent?

23 A. 4.4 percent.

24 Q. Do I recall that you expressed your opinion
25 that that incremental increase in reserves is, in

1 fact, a reliable product of your study and the use of
2 the model, that there is, in fact, a real increase in
3 ultimate recovery from the wells in the Pitchfork
4 Ranch-Atoka Pool?

5 A. This is true. The Case A and Case B
6 scenarios were run exactly with the same model and
7 input data. We were looking for a relative shift. I
8 take comfort in that personally, from my point of
9 view, that it is a real number.

10 Also, the pressures shown on Exhibits 18
11 and 19, the fact that they conform to a real pattern
12 and not a statistical random pattern, but conform to a
13 real and intuitive pressure distribution in the
14 reservoir, is also, I think, further indication that
15 the results have physical meaning.

16 MR. PEARCE: I have nothing further at this
17 time, Mr. Examiner.

18 MR. CARR: If I might, just one follow-up?
19 or would you like me to shut up for a little while?

20 HEARING EXAMINER: I would like to ask some
21 questions here.

22 MR. CARR: All right. I have one later.

23 EXAMINATION

24 BY MR. STOGNER:

25 Q. Mr. Ausburn, what is Parker's interest in

1 this pool?

2 A. They have some kind of production payment
3 arrangement, I believe.

4 Q. You'll have to elaborate on that.

5 A. How about, I'm not sure. Is that an
6 adequate answer? They are due some payment, I
7 believe, from production from wells in this reservoir.

8 Q. Which wells?

9 A. Well, I think all the wells except 34-1,
10 Cox 4-2, and the Meridian well. I would presume the
11 Pitchfork 4-2.

12 Q. But you do not know what Parker's interest
13 as a percentage is in the wells that you have
14 mentioned that they do have some interest in?

15 A. No, sir.

16 Q. Is this a working-interest arrangement?
17 Would that be safe to say?

18 A. I don't think it's a working-interest
19 arrangement.

20 Q. I want to refer to Exhibits 18 and 19. You
21 show an X and Y axis. What is that?

22 A. That's just east, west, north, south
23 direction. This is a grid block.

24 Q. Yeah. What is the one, two, three, four?
25 What am I looking at? Is that feet? inches? miles?

1 A. Those are grid blocks. This has a physical
2 scale, it's one inch equals 2,000. Perhaps that's not
3 noted on here. It may not be.

4 MR. STOVALL: That would not be true on the
5 shrunk versions that we have in front of us?

6 THE WITNESS: No. That's true. On my copy
7 it's one inch equals 2,000.

8 Q. We'll call it one unit equals 2,000 feet;
9 how's that?

10 A. Yeah. Something like that. I could scale
11 that off. But these are methods of locating physical
12 parameters in the reservoir. And we have a 13 by 10
13 grid block, and the reservoir has been gridded so that
14 one can allow for porosity and permeability and
15 saturation variations laterally through the reservoir.

16 MR. STOVALL: Mr. Examiner, may I ask a
17 follow-up question to that while you're sorting
18 through the exhibits?

19 HEARING EXAMINER: Yes, please.

20 EXAMINATION

21 BY MR. STOVALL:

22 Q. Do you have a map which shows the grid
23 blocks relating to these sections, or anything that
24 would show us how those grid blocks fit in, or can you
25 tell us what the limits of the grid block are, in

1 terms of actual land locations?

2 A. The well spots shown are real well spots,
3 and the distance between the wells are, and that would
4 be one way to get to scale on the reduced copies, is
5 the distance between the different well spots would
6 relate this grid model to a map.

7 Q. If I look at these, it appears on my copy
8 that the grids are not all the same size. It's not a
9 squared grid, is that correct?

10 A. That's true. They're rectangles but
11 they're not all the same. And that's common. If one
12 had an aquifer, one would have one large block, one
13 grid, and you could tack it on at an appropriate end
14 of the grid.

15 FURTHER EXAMINATION

16 BY MR. STOGNER:

17 Q. Mr. Ausburn, do you know how much pipelines
18 are in this particular pool?

19 A. No, I don't.

20 Q. And there are no unorthodox locations that
21 you're aware of?

22 A. None that I'm aware of.

23 Q. Let's look in Section 4, that's the
24 J. L. Cox No. 2, and I'm looking at your Exhibit 5.
25 Is that, indeed, a stand-up proration unit?

1 A. Yes, sir.

2 Q. Would that not be an unorthodox location?

3 A. Looks pretty close, doesn't it?

4 Q. Yes, it does. Do you know what the
5 administrative order, or was that order issued for
6 approval of that unorthodox location by hearing?

7 A. I don't know.

8 Q. And all the proration units are roughly 320
9 acres?

10 A. Yes, sir.

11 Q. Now, you touched on the market of the gas
12 presently. Would you run that by me again, but a
13 little more in detail? Does the market exceed demand
14 in this particular pool at this time?

15 A. I think I said that I don't know for sure,
16 but I'm under the impression that the wells are able
17 to sell, if they like the price, essentially all the
18 gas that they're able to produce.

19 HEARING EXAMINER: Mr. Carr, I'll allow you
20 to continue with your questions.

21 FURTHER EXAMINATION

22 BY MR. CARR:

23 Q. Mr. Ausburn, on Exhibit No. 5, you've
24 placed the State proration units. Did you do that
25 yourself, or did you get that data from someone on

1 your staff?

2 A. Well, my staff did it.

3 Q. If, in fact, in Section 4 we have laid-down
4 instead of stand-up units, those would be at standard
5 locations, would they not?

6 A. Yes, I would imagine they would be, yes,
7 sir.

8 Q. You don't know whether or not that might be
9 an error?

10 A. It might be.

11 Q. Mr. Pearce had a couple of questions, and I
12 just want to be sure I understand what you were
13 saying. He was talking about additional reserves that
14 could be recovered, I think, and we've been talking
15 about an increase of 1.4 percent of something and 4.4
16 percent of something else.

17 Could you tell me what those numbers are?
18 I'm just confused.

19 A. The difference in the estimated recovery of
20 reserves as of 7/1/89, is 355 million. The prorated
21 case would predict 355 million additional cubic feet
22 would be recovered, and that, divided by the estimated
23 recovery from the nonprorated case, is 4.4 percent.

24 Q. So the additional recovery is not 1.4, it's
25 4.4?

1 A. The additional recovery is 4.4.

2 MR. CARR: I didn't understand it. Thank
3 you very much. That's all I have, Mr. Stogner.

4 MR. STOVALL: Mr. Examiner, I would like to
5 follow up a little more, if I may?

6 HEARING EXAMINER: Mr. Stovall, please.

7 FURTHER EXAMINATION

8 BY MR. STOVALL:

9 Q. Do you know how much gas was produced from
10 the 34-1 from September of '83 to February of '86?

11 A. I don't have those numbers readily
12 available. I have the number up to July 1, '89. Of
13 '86, well, before--no, I don't have that number in
14 hand, no, sir.

15 Q. Do you have the numbers showing the current
16 producing rates or capacity of the wells in the pool
17 at the present time?

18 A. Yes, I have those, I think.

19 Q. Are those in such a form that they could be
20 put into the record?

21 A. Read into the record? If I can find them.
22 I have a handwritten note here somewhere. Here they
23 are. Well, these are productions as of July 1, 1989.
24 That's what I have readily available.

25 Q. How are the numbers stated?

1 A. They're in MCF per day.

2 Q. Could you go ahead and just run through
3 those quickly? And perhaps, just to make it easier,
4 we could use Exhibit No. 2, which seems to be the
5 order of the wells. Would that work?

6 A. Yes, this is in the same order, yes, sir.
7 We would have estimated--and this is, I think, average
8 June production--3,128 MCF per day.

9 MR. PEARCE: I'm sorry. Let's be more
10 specific. On the Enron 34-1.

11 A. On the 34-1, 3,128 MCF per day.

12 We have an estimated number for the Cox
13 4-2, the second well, of 233. The well--it's not
14 clear. The well is off production. It was off
15 production for that month. Its actual reported number
16 was zero, I believe, if you want to footnote that.

17 The third well down, the Diamond 5-3, 1,268
18 MCF per day.

19 The next well down, 32 State No. 3, 506 MCF
20 per day.

21 The Madera 33-3, 832 MCF per day.

22 The Madera 28-2, 1,035 MCF per day.

23 Page 3-2, 772 MCF per day.

24 Madera 33-4, 700 MCF per day.

25 And the last well, the Pitchfork 4-2, 1,415

1 MCF per day.

2 Q. And where did you get this information?

3 A. Public records.

4 Q. I believe, if I understood your testimony,
5 you stated that all of the wells were able to produce
6 whatever they wished to sell given the price at any
7 given time. There was no inability to get to the
8 market at the going price on any given day, is that
9 correct?

10 A. That's my understanding.

11 Q. How would you anticipate we set the total
12 pool allowable if this pool were prorated? What
13 number would that be? Have you got a feel for that
14 number?

15 A. Well, it would be something that would come
16 off of Exhibit 15, probably, which would be on the
17 order of 5,000 MCF per day, yes.

18 Q. Let's take Exhibit 15 as your reference
19 point, being a point in time, recognizing that the
20 allowable varies from month-to-month based on the
21 factors that would go into the system. How would you
22 arrive at that number at that point in time? How did
23 you pick 5,000 whatever it is?

24 A. That's one-ninth of the average
25 deliverability for the year 1990.

1 Q. So what I understand you're suggesting then
2 is that--

3 A. Excuse me. That's--well, that is the sum
4 of all the well deliverabilities divided by nine times
5 nine then. That sounds confusing.

6 Q. It does sound confusing, yes.

7 A. Let me try something else. The total pool
8 would have been 5,000 MCF a day.

9 Q. That's based upon the ability of those
10 wells to produce at that point in time?

11 A. Yes.

12 Q. And then what you would suggest doing then
13 is reallocating that production to each of the wells
14 based upon a surface acreage, a one-ninth calculation,
15 is that correct?

16 A. Yes. Each well would have one-ninth of
17 5,000, yes. And that's an average.

18 Q. And then, in fact, would that not--and then
19 what you would do, you would find that some of those
20 wells were incapable of producing their allowable,
21 would you not?

22 A. At some point in the year perhaps that's
23 true, yes.

24 Q. And if the wells which were capable of
25 producing in excess of their allowable only produced

1 the allowable, you would actually get deliveries into
2 the market of less than demand, assuming that the
3 market will absorb all of the gas that could be
4 produced from the reservoir?

5 A. That's true.

6 Q. Why would we want to do that?

7 A. To get more gas ultimately from the
8 reservoir.

9 Q. So you are suggesting that the sole purpose
10 of prorating this pool is, to put it in the terms of
11 the statute, to prevent waste by increasing the
12 ultimate recovery of gas from the pool?

13 A. That's true.

14 Q. I guess I'm not sure I understand the cause
15 and effect relationship. You've shown us some
16 exhibits that say if the pool is prorated there will
17 be an additional recovery of 300,000-something, is
18 that correct, MCF?

19 A. 355 million, yes.

20 Q. 355 million cubic feet of gas. I'm not
21 sure I understand the causal connection between
22 prorating the pool and the additional recovery.

23 A. It causes the distribution in the reservoir
24 pressure to be more even, the distribution of
25 reservoir pressure to be more even.

1 Q. What would the allowable for the 34-1 be,
2 at that point in time we're talking about? What would
3 the allowable for that well be?

4 A. 560 MCF a day.

5 Q. As opposed to its capacity of 3,100?

6 A. Yes.

7 Q. Current capacity of 3,100?

8 A. Yes.

9 Q. So while it could overproduce, it would
10 quickly reach the six times overproduced limit? Is
11 that your assumption?

12 A. I would assume.

13 Q. Is there any restriction on pipeline
14 capacity and getting gas out? I'm assuming there is
15 not, since you've said each well can produce into the
16 market.

17 A. We have assumed there's not.

18 MR. STOVALL: I have no further questions.

19 MR. PEARCE: Mr. Examiner, I'm a little
20 hesitant. I have some information on the Parker
21 interest in each well in which Parker has an
22 interest. I don't think between Parker, Enron and
23 Samedan there's a dispute about that, and subject to
24 verification after the hearing I'm happy to tell you
25 what my records reflect that interest would be, if it

1 would help you in your analysis of this matter.

2 MR. CARR: I also have a witness who can
3 give the percentages and will do that, and I agree
4 there's no dispute as to those.

5 HEARING EXAMINER: The reason I asked that
6 question, I was just a little bit confused as to what
7 Parker's interest was.

8 MR. PEARCE: Parker does, in fact, have a
9 working interest in seven of the wells, Mr. Examiner.
10 Six, I'm informed.

11 MR. STOVALL: Mr. Pearce, as long as you've
12 broached the subject and you may wish to defer to the
13 witness, but does that include the 34-1?

14 MR. PEARCE: No.

15 HEARING EXAMINER: Nor the Cox 4-2, nor the
16 Meridian 4-2, is that correct?

17 MR. PEARCE: That's correct.

18 HEARING EXAMINER: Are there any other
19 questions of this witness at this time? If not, Mr.
20 Ausburn, you may be excused. Let's take a little
21 break, about 10, 15 minutes.

22 (Thereupon, a recess was taken.)

23 HEARING EXAMINER: This hearing will come
24 to order. Mr. Carr?

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

1 this time we'll call Gary L. Thomas as a witness.

2 GARY L. THOMAS

3 Called as a witness herein, after having been first
4 duly sworn upon his oath, testified as follows:

5 EXAMINATION

6 BY MR. CARR:

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

9 A. Gary L. Thomas.

10 Q. Mr. Thomas, where do you reside?

11 A. Midland, Texas.

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

14 A. I'm employed by Enron Oil & Gas Company,
15 I'm vice-president and general manager of the Midland
16 Division.

17 Q. Have you previously testified before the
18 New Mexico Oil Conservation Division?

19 A. No, sir.

20 Q. Would you review your educational
21 background and then briefly summarize your work
22 experience?

23 A. I graduated from the University of Texas
24 with a B.S. in petroleum engineering in 1972; also
25 obtained a master's of engineering management from the

1 University of Tulsa in 1983; and have 17 years oil and
2 gas experience with Major Oil Company, Union Oil
3 Company of California, Apache, and also Enron Oil &
4 Gas Company.

5 Q. Are you familiar with the application filed
6 in this case on behalf of Parker Drilling Company?

7 A. Yes, sir.

8 Q. Are you familiar with the contract between
9 Enron and Parker and the wells that were drilled
10 pursuant to that contract in the Pitchfork Ranch-Atoka
11 Gas Pool?

12 A. Yes, I am.

13 Q. What is Enron's purpose in appearing here
14 in this case?

15 A. In opposition to prorationing for the
16 Pitchfork Ranch-Atoka Pool.

17 Q. Could you identify what has been marked as
18 Enron Exhibit No. 1, please, and review it for the
19 Examiner?

20 A. Yes. This is a drilling agreement between
21 Enron, formerly HNG, and Parker Drilling Company. It
22 provided for Parker to drill 22 wells on Enron Oil &
23 Gas Company leasehold in Eddy and Lea Counties, New
24 Mexico, paying all costs except for leasehold and
25 title costs.

1 Q. And at what rates was Parker to be
2 compensated for this drilling work?

3 A. Parker's day work contract was to be \$5,800
4 a day, at least, in order to debit the pay out
5 account.

6 Q. What was the going day work rate at that
7 time?

8 A. The competitive day work rate was \$4,300
9 per day, which was charged to the nonagreement
10 parties.

11 Q. How were they compensated for materials and
12 services provided?

13 A. Materials and services were charged to the
14 payout account at 120 percent, or 20 percent
15 surcharge.

16 Q. Is interest due on the unpaid balance in
17 that payout account?

18 A. Yes. Interest was charged at a rate of two
19 percent per annum over and above the Texas Allied Bank
20 per annum rates.

21 Q. And how was this payout count to be
22 satisfied? How was it to be paid?

23 A. Enron, at time of completion of each well,
24 was to assign to Parker a limited assignment of oil
25 and gas leases, 85 percent of Enron's mineral and

1 working interest.

2 Q. Were these interests actually assigned to
3 Parker?

4 A. Yes.

5 Q. Was it done on a well-by-well basis?

6 A. Yes.

7 Q. As a result of that, does Parker own a
8 working interest in six wells in this pool?

9 A. They do.

10 Q. Do they own an interest in the 34-1 well?

11 A. No, sir.

12 Q. Has payout of the payout account occurred
13 at this time?

14 A. No, payout has not occurred.

15 Q. Do you anticipate a payout date?

16 A. We do not expect that the entire program of
17 11 wells, as it is currently, will pay out.

18 Q. And there were only 11 wells drilled under
19 the program, not 22?

20 A. There were, at one point, 13 wells, and now
21 there's 11 wells in the payout account.

22 Q. How many wells were drilled pursuant to
23 this agreement in this pool, the Pitchfork Ranch-Atoka
24 Gas Pool?

25 A. There were six wells drilled and completed

1 in the Pitchfork-Atoka Pool.

2 Q. If you look at just these six wells, would
3 they pay out all the costs associated with the
4 development of this pool?

5 A. Yes, sir.

6 Q. How were the wells that were drilled
7 pursuant to this drilling contract actually selected?

8 A. Enron designated the locations and provided
9 to Parker Drilling in completion programs and
10 authority for expenditures or AFEs.

11 Q. Did you supply this just to Parker or to
12 anyone else?

13 A. It was supplied to Parker and then also to
14 Ed Cobb, a petroleum engineering consultant in Tulsa.

15 Q. Was he employed by Parker?

16 A. Yes.

17 Q. Did Parker ever express to you any concern
18 about any of the proposed well locations?

19 A. No, not to my knowledge.

20 Q. Are you an appropriate person to whom this
21 concern would have been addressed?

22 A. Yes, I should have been aware.

23 Q. Could you identify for us what is marked as
24 Enron Exhibit No. 2?

25 A. Yes. This is a list of all of the wells

1 that were included in the Enron-Parker drilling
2 program at some point.

3 Q. And from this list you can tell which were
4 in the Pitchfork Ranch and which were in the other
5 pools?

6 A. Yes, from the field designation on the
7 list, it indicates that six are completed in the
8 Pitchfork Ranch-Atoka Pool.

9 Q. Could you identify now what is marked as
10 Enron Exhibit No. 3?

11 A. Yes, sir, this is a letter dated July 21,
12 1986, the same date as the drilling agreement, that
13 provides for inclusion of two wells, the two noted on
14 the top of Exhibit 2, which were completed prior to
15 the date of this drilling agreement.

16 Q. So they were added to the drilling
17 agreement?

18 A. Yes, sir.

19 Q. Would you then go to Exhibit No. 4?

20 A. Yes. This is a letter dated September 9,
21 1987, whereby these two wells were excluded from the
22 drilling agreement.

23 Q. And when these were excluded, that reduced
24 the number of wells under the package from 13 to 11;
25 is that correct?

1 A. That's correct.

2 Q. Did you ever receive any complaints from
3 Parker about the methods employed by Enron operating
4 any of the wells that you operate in the Pitchfork
5 Ranch-Atoka Gas Pool?

6 A. I'm aware of no complaints.

7 Q. If we look at this original drilling
8 agreement, is there anything in the agreement that
9 guaranteed ultimately full payout to any party?

10 A. No, sir. It was non-recourse financing.
11 It can be noted, I believe on page 10 here, paragraph
12 5.9(B), that notes the Parker further agrees that the
13 sole consideration received by Parker for all such
14 costs, credits and contractual amounts shall be the
15 above-described limited assignments of oil and gas
16 leases to be assigned by HNG, now Enron, to Parker.
17 And that limited assignment is the 85 percent
18 assignment of Enron's interest.

19 Q. We're talking about Exhibit 5 being the
20 assignments, is that correct?

21 A. Exhibit 5 is the assignment--this is copies
22 of assignments of these two wells from Parker back to
23 Enron after they were excluded from the program,
24 saying they were not going to facilitate payout of the
25 drilling agreement or payout program.

1 Q. At this point in time, if gas prices stay
2 where they are, do you anticipate a pay out of the
3 payout account under this drilling program?

4 A. No, sir.

5 Q. If wells would be assigned back, would they
6 all be assigned back at one time?

7 A. Yes, if the program were to pay out, all
8 interest previously assigned to Parker would be a
9 reassigned to Enron Oil & Gas Company.

10 Q. Were Exhibits 1 through 5 compiled under
11 your direction and supervision from the records of
12 Enron Oil & Gas Company?

13 A. Yes, sir.

14 MR. CARR: At this time, Mr. Stogner, I
15 would move the admission of Exhibits 1 through 5.

16 MR. STOVALL: Mr. Examiner, before we admit
17 those, I would like to identify what appears to be a
18 problem with our copies of the exhibits. My Exhibit
19 No. 1 appears to be missing pages 11 and 12 and yours
20 appears to be missing pages 13 and 14.

21 THE WITNESS: Mine is complete.

22 MR. CARR: We'll make additional copies of
23 11, 12, 13 and 14 and provide those to all parties and
24 the Commission.

25 HEARING EXAMINER: Are there any

1 objections?

2 MR. PEARCE: No objection.

3 HEARING EXAMINER: Exhibits 1 through 5 in
4 their entirety will be admitted into evidence.

5 MR. CARR: That concludes my direct
6 examination of Mr. Thomas.

7 HEARING EXAMINER: Thank you Mr. Carr. Mr.
8 Pearce, your witness.

9 EXAMINATION

10 BY MR. PEARCE:

11 Q. Mr. Thomas, just very briefly. I want to
12 understand, your Exhibit 5 is the assignments back
13 from Parker to, was it Enron at that time?

14 A. Yes, it was Enron at that time.

15 Q. There are, in fact, assignments which are
16 binding and which have been recorded, assigning the
17 interests in each of the six wells from HNG, or Enron,
18 to Parker?

19 A. Yes, sir. An example of that limited
20 assignment of oil and gas lease is in Exhibit 1.

21 Q. Are you, Mr. Thomas, the witness who was
22 mentioned earlier who could tell us what
23 percentage--do you have that information available to
24 you, the percentage held by Parker in each of the six
25 wells in question?

1 A. Yes, sir.

2 Q. Could you read those to us and identify
3 whether it's net or gross interest, or what kind of
4 interest it is?

5 A. Okay. This is the working interest. I've
6 rounded it off to two places. Parker has a 29-percent
7 working interest in the Page 3 No. 2; a 66-percent
8 working interest in the Diamond 5-3; a 55-percent
9 working interest in the Madera 32 No. 3; 35 percent in
10 the Madera 28 No. 2, and a 50-percent working interest
11 in the Madera 33 No. 4; 43-percent working interest in
12 the Madera 33 No. 3.

13 MR. PEARCE: Thank you, sir. I have
14 nothing further of this witness, Mr. Examiner.

15 HEARING EXAMINER: Ms. Callahan, do you
16 have any questions of this witness?

17 MS. CALLAHAN: No, I don't.

18 HEARING EXAMINER: If not, you may be
19 excused.

20 MR. CARR: At this time we would call Mr.
21 Hoyle.

22 ANDREW N. HOYLE

23 Called as a witness herein, after having been first
24 duly sworn upon his oath, testified as follows:

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EXAMINATION

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BY MR. CARR:

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

A. My name is Andrew N. Hoyle.

Q. Mr. Hoyle, where do you reside?

A. I reside in Spring, it's a suburb of Houston, Texas.

Q. By whom are you employed?

A. I'm employed by Enron Oil & Gas Company.

Q. What position do you hold with Enron?

A. My position is vice-president of marketing for Enron Oil & Gas.

Q. How long have you been in this position?

A. Next month it will be two years.

Q. Have you previously testified before this Division?

A. No, sir, I have not.

Q. Would you review your educational background and briefly summarize your work experience.

A. Yes, sir. I received a bachelor of science degree in chemical engineering from Texas Tech University in 1973; upon graduation I went to work for Exxon as a reservoir engineer. I held reservoir engineering and gas process engineering positions with

1 Exxon, as well as Texas Oil & Gas.

2 MR. STOVALL: Can we stop for just a
3 second?

4 (Discussion off the record.)

5 MR. STOVALL: This hearing will adjourn
6 until 1:15 p.m.

7 (Thereupon, the noon recess was taken.)

8 HEARING EXAMINER: The hearing will come to
9 order. Mr. Carr, I'll let you start all over again
10 with this second witness.

11 EXAMINATION RESUMED

12 BY MR. CARR:

13 Q. All right. We'll just start at the
14 beginning again. Mr. Hoyle, would you state your full
15 name for the record, please.

16 A. Yes. My name is Andrew N. Hoyle.

17 Q. Where do you reside?

18 A. I reside in Spring, a suburb of Houston,
19 Texas.

20 Q. Sounds like we've practiced this. Mr.
21 Hoyle, by whom are you employed and in what capacity?

22 A. I'm employed by Enron Oil & Gas Company as
23 vice-president of marketing.

24 Q. How long have you held that position with
25 Enron?

1 A. It will be two years this January.

2 Q. Have you previously testified before this
3 Division?

4 A. No, sir, I have not.

5 Q. Would you briefly summarize your
6 educational background and then review your work
7 experience.

8 A. I received a bachelor of science degree in
9 chemical engineering from Texas Tech University in
10 1973; after graduation I went to work for Exxon as a
11 reservoir engineer. After that initial assignment I
12 had other reservoir engineering and gas process
13 engineering assignments not only with Exxon but with
14 Texas Oil & Gas and Perry Gas Companies.

15 I joined Houston Pipeline in June of 1985.
16 Houston Pipeline is a subsidiary of Enron Corp. And
17 after working there I came to work for Enron Oil & Gas
18 or was assigned to Enron Oil & Gas in January 1988.

19 Q. Is the Pitchfork Ranch-Atoka Gas Pool
20 within your geographic area of responsibility?

21 A. Yes, sir, it is. I'm responsible for all
22 the gas marketing activities of Enron Oil & Gas
23 Company.

24 Q. And what does your job entail? What are
25 your duties?

1 A. Our job involves identifying a gas
2 purchaser and then negotiating and securing the
3 required agreements to effect that sale.

4 MR. CARR: We would tender Mr. Hoyle as an
5 expert witness in the area of gas marketing.

6 MR. PEARCE: No objection.

7 HEARING EXAMINER: Mr. Hoyle is so
8 qualified.

9 Q. Mr. Hoyle, to whom is gas from the
10 Pitchfork Ranch-Atoka Gas Pool sold?

11 A. The gas is primarily dedicated to
12 Transwestern Pipeline, but we can sell some volumes to
13 third parties or other purchasers in the area.
14 Transwestern's pipelines are connected to our wells
15 but, you know, it's our responsible to get this gas to
16 not only Transwestern but to the other purchasers, you
17 know, via Transwestern.

18 Q. What is the current status of the market
19 for gas from this particular pool?

20 A. We currently have a market that does exceed
21 the capacity of the wells to produce in the Pitchfork
22 Field. Our market is very constant. It's pretty much
23 a year-round demand, nonseasonal type restrictions
24 don't appear here in this area.

25 Q. Do you have an opinion as to what the

1 market will be for gas from this pool in the future?

2 A. Yes. Well be able to continue to produce
3 all the gases available at the Pitchfork Ranch Field.
4 This gas ends up going to the Southern California
5 market area, which is one of the largest gas-consuming
6 areas in this country.

7 Q. What are you doing now currently to keep
8 the production up from this pool?

9 A. We are currently working with Transwestern
10 to evaluate the potential installation of central gas
11 compression facilities in the field. By doing this,
12 this will enable us to continue producing the field
13 and to do these sales.

14 Q. What would happen if this pool is prorated
15 and gas production from the pool is restricted, even
16 on a temporary basis?

17 A. Well, simply what will happen is that the
18 purchasers will seek gas supplies from other areas,
19 namely West Texas, the Texas Panhandle and Western
20 Oklahoma.

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

23 A. No, sir, I do not.

24 MR. CARR: Thank you. That concludes my
25 direct examination of this witness.

1 HEARING EXAMINER: Thank you, Mr. Carr.
2 Mr. Pearce?

3 MR. PEARCE: Thank you, Mr. Examiner.

4 EXAMINATION

5 BY MR. PEARCE:

6 Q. Mr. Hoyle, let me go back and I may be
7 going over something but I want to understand it. Who
8 purchases the gas from this pool?

9 A. We sell gas to Transwestern Pipeline
10 Company as well as other purchasers.

11 Q. Transwestern is an affiliate of Enron, is
12 it not?

13 A. Yes, sir, it is.

14 Q. We heard testimony earlier that Parker, at
15 least, is an interest owner but does not own interest
16 in all wells in the pool. Are all of the wells in the
17 pool sold under the same contractual arrangement, all
18 of the wells that Enron operates? Is all that gas
19 sold under the same contractual arrangement?

20 A. The same contractual arrangements that
21 Enron has entered into, yes, sir, that's correct.

22 Q. So that the same agreements that cover the
23 34-1 well, cover the other wells in which Parker has
24 an interest?

25 A. They could. I don't recall specifically

1 which wells are covered by the agreements, but
2 whatever agreement arrangement we enter into to sell
3 the gas, if it involves Parker's interest then it is
4 included in that contractual arrangement for that
5 sale.

6 Q. And my question is, and maybe you
7 understood this and tried to get to it, does the same
8 contractual arrangement cover the wells in which
9 Parker does not have an interest that covers the wells
10 in which Parker does have an interest?

11 A. Not necessarily. It could, but I don't
12 know offhand.

13 Q. Do you know if the gas is sold at the same
14 price?

15 A. Generally the gas out there is sold at the
16 same price.

17 Q. I take it from that you're not sure?

18 A. Well, in one month there was some gas sold
19 at different prices and I don't know offhand which
20 specific wells that would involve.

21 Q. What percentage of the gas from the
22 Pitchfork Ranch-Atoka produced by wells that Enron
23 operates is sold to Transwestern as opposed to the
24 percentage sold to other purchasers?

25 A. I don't know offhand because we work with,

1 it's like 27 or 30-some-odd wells in the total
2 Pitchfork Ranch area, and offhand I do not know which
3 wells are in the Atoka or the other reservoirs there
4 regarding those sales.

5 Q. And it is Enron's responsibility, under its
6 agreement with Parker, to market the gas from the
7 wells in which Parker has an interest, is it not?

8 A. That is my understanding.

9 MR. PEARCE: I don't think I have anything
10 further. Thank you, Mr. Examiner.

11 HEARING EXAMINER: Mr. Carr?

12 MR. CARR: Nothing further, Mr. Stogner.

13 HEARING EXAMINER: Ms. Callahan?

14 MS. CALLAHAN: We have nothing.

15 HEARING EXAMINER: Mr. Stovall?

16 MR. STOVALL: I have nothing.

17 HEARING EXAMINER: If there's no other
18 questions of this witness, he may be excused.
19 Mr. Carr?

20 MR. CARR: At this time we would call Mr.
21 Helms.

22 L. W. (BILLY) HELMS, JR.

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

25

EXAMINATION

BY MR. CARR:

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

A. L. W. Helms, Jr.

Q. Mr. Helms, where do you reside?

A. Midland, Texas.

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

A. Enron Oil & Gas as a product production engineer.

Q. Have you previously testified before the New Mexico Oil Conservation Division?

A. Yes, I have.

Q. At that time were your credentials as a petroleum engineer accepted and made a matter of record?

A. Yes.

Q. Does your geographic area of responsibility with Enron include the Pitchfork Ranch-Atoka Gas Pool and the surrounding area?

A. Yes.

Q. Are you familiar with this pool?

A. Yes.

Q. Are you familiar with the application filed

1 in this case on behalf of Parker Drilling?

2 A. Yes.

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

5 HEARING EXAMINER: Are there any
6 objections?

7 MR. PEARCE: No objection.

8 HEARING EXAMINER: Mr. Helms is so
9 qualified.

10 Q. Mr. Helms, would you identify what has been
11 marked as Exhibit No. 6 and review this for the
12 Examiner, please.

13 A. Exhibit No. 6 is a plat showing the Atoka
14 wells which are circled and colored in purple, and it
15 also shows the spacing units for each well. I might
16 add that each well is located at a standard location
17 and each spacing unit is a standard spacing unit for
18 each well.

19 Q. If we go to Section 4, in fact there are
20 laid-down units dedicated to the wells in that
21 Section?

22 A. That is correct.

23 Q. So all wells in the pool are at standard
24 locations?

25 A. That is correct. Also to be noted on this

1 plat are some numbers which represent the calculated
2 deliverabilities for each well at a tubing pressure of
3 300 pounds.

4 Q. Why was a 300-pound tubing pressure used?

5 A. Each well that Enron operates delivers into
6 about a 900-pound line pressure. We have currently
7 put compression on each well and are trying to achieve
8 a 300-pound tubing pressure with that compression.

9 Q. Has compression been added to the 34 No. 1
10 well?

11 A. Yes, it has. It was the last well to go on
12 compression for the wells that Enron operates.

13 Q. Do you know what the current status of the
14 Cox well is in the north half of Section 4?

15 A. They've experienced some mechanical
16 problems with that particular well, and I believe it's
17 not producing large quantities of gas. As a matter of
18 fact, I think they've already filed an intent to P & A
19 that well.

20 Q. Let's go to Exhibit 7, and I would ask you
21 to identify this for Mr. Stogner.

22 A. Exhibit No. 7 is a list of each well in the
23 field. It gives the operator, the well name, the
24 location, the pipeline connection and some pertinent
25 dates which includes the spud date, the date the total

1 depth was reached, the completion date and the date of
2 first sales for each well. It lists the wells in
3 alphabetical order by operator, and then under each
4 operator, in chronological order in which the wells
5 were drilled.

6 Q. The first well in this pool was the 34-1?

7 A. That is correct.

8 Q. Following the drilling and completion of
9 that well, what was the next well drilled in the area
10 by Enron?

11 A. The first well was Pitchfork 34 Fed. Com.
12 No. 1. It was completed in June of '83. The next
13 well to be drilled was the Moore 34 No. 1, which was
14 drilled in '84, I believe, in June of '84, I believe.

15 Q. And that offsets the 34 No. 1 to the east?

16 A. That's correct.

17 Q. And Enron was the operator of that well?

18 A. That's correct.

19 Q. What was the next well drilled in the
20 reservoir?

21 A. The next well was the well drilled by John
22 L. Cox. It was drilled in '86. Enron, still unsure
23 about the extent of the reservoir, farmed out this
24 location to John L. Cox in October of '85. They
25 commenced drilling in January of '86 and completed the

1 well in February.

2 Q. Were the remainder of the wells that are
3 operated by Enron drilled as a part of the drilling
4 package with Parker Drilling?

5 A. That is correct. The drilling program
6 started in the latter half of '86 and continued until
7 August of '87.

8 Q. I would like now to move to Exhibit No. 8,
9 and I would ask you to identify Exhibit No. 8 and
10 explain what it shows.

11 A. Exhibit No. 8 is a graphical representation
12 of the production history of the field. It consists
13 of a bar graph which is colored in orange and blue.
14 The orange represents the days each well produced for
15 the month in a percent of the days available to
16 produce.

17 In other words, if there were 31 days in
18 the month and the well produced 31 days, the orange
19 would show 100 percent on the scale to the right.
20 Consequently, the days shut in is in contrast to
21 that.

22 The green line shows the barrels of
23 condensate produced for the month. The red line shows
24 the gas quantities produced for the month. The blue
25 line shows the barrels of water produced for the

1 month.

2 The first page is a summary for the
3 Pitchfork Ranch-Atoka Field and the following pages
4 represent the production information for each well in
5 the field. And you will note that on the majority of
6 the wells there has not been a problem with delivering
7 gas. It's been produced almost at capacity for the
8 entire life of the field.

9 Q. If we go to the third page of this exhibit,
10 that's the plat for the John L. Cox well?

11 A. That is correct.

12 Q. If we look at the recent production, it
13 shows that, in fact, it was shut in most of the time,
14 is that correct?

15 A. That is correct.

16 Q. Does that account for the blue in the upper
17 right-hand corner on page 1 of this exhibit?

18 A. Yes. You can see, in the latter half of
19 1989, that well began experiencing mechanical problems
20 and is actually shut in. With nine wells in the
21 field, if one of the wells is down, that represents
22 about 10 percent of the total volume, or the total
23 number of days it will actually be off, and that is
24 depicted on page 1.

25 Q. And what does this exhibit tell you about

1 the production from this pool?

2 A. That there is a market available for the
3 gas from this pool that certainly is as much as what
4 the field will produce.

5 Q. Go to the last page of that exhibit.
6 That's on the Meridian Pitchfork 4 Fed. Com. No. 2?

7 A. That is correct.

8 Q. To whom is gas from this well sold?

9 A. To El Paso Pipeline.

10 Q. What does this tell you about the
11 production from the field?

12 A. That there are two pipeline connections in
13 the field, Transwestern and El Paso. El Paso takes
14 only from this Meridian well and their market is also
15 a very good market such that they're able to produce
16 all the gas that that well will deliver.

17 Q. Would you identify Exhibit No. 9, please.

18 A. Exhibit No. 9 is simply the tabulation of
19 the numerical data used to present Figure No. 8.

20 Q. Anything else to say about that?

21 A. No.

22 Q. Let's go to what has been marked Enron
23 Exhibit No. 10.

24 A. Exhibit No. 10 is also a production
25 tabulation or graphical representation of the

1 production. It shows, in red, the MCF produced for
2 each month on that particular well. The blue line
3 indicates the flowing tubing pressure for that
4 particular month, and the dotted black line indicates
5 the prevailing sales line pressure for that particular
6 month.

7 You can see from the chart that each well
8 was produced at a fairly good rate and, in fact, if
9 you were to glance through these, many of the wells
10 were produced at such a rate to allow the tubing
11 pressure to come down to the line pressure fairly
12 rapidly, indicating they were producing fairly close
13 to capacity. Once they reached line pressure they
14 were not restricted in any way. They were maintained
15 at a rate that they were capable of producing. The
16 only well that was in any way potentially restricted
17 was the Pitchfork 34 No. 1.

18 Q. Is that the second page in this exhibit?

19 A. Yes, it is. You can see that the tubing
20 pressure, by sustaining a large margin over the line
21 pressure, the well was actually able to produce more
22 gas than that but the rate was held fairly constant
23 for a period of about five years, and the well was not
24 able to produce at a larger rate.

25 Q. Other than this well, were any of the wells

1 in this pool that are operated by Enron restricted in
2 any way during this period of time?

3 A. No, they were not.

4 Q. I would like you now to identify what has
5 been marked as Enron Exhibit No. 11.

6 A. Exhibit 11 is reservoir parameters for each
7 well in the field. These list the completion date for
8 each well and these wells are listed in chronological
9 order according to their completion date. The
10 reservoir pressures are listed where they were
11 available, along with the permeabilities and the
12 calculated porosity feet, porosity net feet of pay for
13 each well.

14 Q. What does this exhibit tell you?

15 A. This exhibit shows that the permeability
16 for the Pitchfork 34 No. 1 is excellent, it's 17
17 millidarcies, but it is also in the same range as
18 other wells in the field, the Diamond 5 No. 3, in
19 fact, has a slightly higher permeability, but it has a
20 lower porosity net feet of pay. The well with the
21 highest porosity net feet of pay is the Pitchfork 34
22 No. 1, and it is, indeed, the best well in the field.

23 Q. Now, the Diamond 5 well has permeability of
24 18.6 millidarcies, is that correct?

25 A. That's correct.

1 Q. How does the producing rate from the
2 Diamond 5 Fed. No. 3 affect pressure over in the
3 western portion of this field?

4 A. The pressure over in the western part of
5 the field is actually, at this point, lower than the
6 pressure sounding the Pitchfork 34 No. 1 in the
7 eastern part of the field. That kind of goes against
8 the testimony we heard earlier, where we could expect
9 to achieve more gas through prorationing. Because if
10 the field were not prorated, the bottom-hole pressure
11 in the western part of the field would be higher at
12 abandonment than on the east side of the field. You
13 can see currently, the bottom-hole pressure on the
14 west side of the field is indeed lower than it is on
15 the east side of the field.

16 Q. Would you expect that to continue even
17 through to abandonment of the reservoir?

18 A. Yes, I would.

19 Q. Has Enron done anything to favor or benefit
20 the Pitchfork 34 Federal Com. No. 1 to the expense of
21 any of the offsetting wells?

22 A. No, they have not.

23 Q. Were Exhibits 6 through 11 prepared by you
24 or compiled at your direction?

25 A. Yes.

1 MR. CARR: At this time, Mr. Stogner, I
2 would move the admission of Enron Exhibits 6 through
3 11.

4 HEARING EXAMINER: Are there any
5 objections?

6 MR. PEARCE: No objections.

7 HEARING EXAMINER: Exhibits 6 through 11
8 will be admitted into evidence at this time.

9 MR. CARR: That concludes my direct
10 examination of Mr. Helms.

11 HEARING EXAMINER: Thank you, Mr. Carr.
12 Mr. Pearce?

13 MR. PEARCE: Thank you, Mr. Examiner.

14 EXAMINATION

15 BY MR. PEARCE:

16 Q. Mr. Helms, if you would please, let's turn
17 to Exhibit 10, the second page, the graphical
18 representation dealing with the 34-1 well.

19 A. Yes, sir.

20 Q. I didn't understand your testimony. When
21 you were talking about the difference between the
22 flowing tubing pressure and the line pressure, were
23 you indicating that Enron had done something
24 affirmatively to maintain that difference?

25 A. Yes. We essentially produced that well at

1 a constant rate over a period of about five years.
2 The well was capable of producing more gas during this
3 period of time. In other words, you could have pulled
4 the tubing pressure down to a lower point and produced
5 a lot higher volume of gas during the early life of
6 that well. In effect we did not. We maintained that
7 well at a constant rate for a period of about five
8 years.

9 Q. Explain to me how you, mechanically, how
10 did you do that?

11 A. Just maintained a certain choke setting to
12 maintain a constant rate.

13 Q. Do you remember what that choke setting
14 was?

15 A. No. Actually this is a diaphragm choke.
16 It's not measured in 64ths of an inch. It monitors
17 the pressure differential across the choke to maintain
18 a certain volume.

19 Q. Were you in the hearing room earlier in the
20 day when Mr. Ausburn testified?

21 A. Yes, I was.

22 Q. And have you looked at his isopach?

23 A. Yes, I have.

24 Q. Are you in fairly good agreement with that
25 isopach and what it reflects?

1 A. Yeah, the isopach looks fairly good. I
2 wish to note that some of my porosity and some of the
3 net feet numbers will vary slightly from these.

4 Like on the Pitchfork 34 No. 1, I believe
5 he had seven feet of net pay, I have eight; he had
6 17.8 percent porosity, I had 19. A very slight
7 difference.

8 Q. Looking at this Exhibit 11, under the
9 current reservoir pressure column, the Madera 32-3
10 well?

11 A. Yes, sir.

12 Q. Shows at 1751. When was that pressure
13 recorded?

14 A. All of these pressures were obtained in
15 October of this year.

16 Q. And how was that obtained? Is that from
17 the bottom?

18 A. Yes, we ran a bottom-hole pressure on the
19 bottom and shut the well in for a period of a week to
20 two weeks on each well.

21 Q. Have you done a study to determine a
22 professional opinion on the original reserves in place
23 under the 320 acres dedicated to the 34-1 well?

24 A. No, I have not.

25 Q. Do you know if anyone at Enron has done

1 that?

2 A. I'm sure it was done when the well was
3 initially drilled.

4 Q. You do not know what that is?

5 A. No, I have no knowledge of that.

6 Q. Do you have an opinion or have you done a
7 study to determine what the reserves currently under
8 that 320 acres are?

9 A. No. I haven't taken this pressure and
10 calculated the reserves under that tract.

11 Q. If I were to ask you to determine the
12 reserves, with the information, do you have the
13 information available to you to make that calculation?
14 and how would you do it if you were asked to do so?

15 A. Yes, I have the information to do that.

16 Q. All right, how would you do that?

17 A. And I would use these current pressures to
18 calculate the bottom-hole pressure, to calculate the
19 reserves under each tract.

20 Q. Your column labeled porosity feet, help me
21 understand what that means.

22 A. That is simply the porosity multiplied
23 times the net pay under each well.

24 Q. For instance, for the 34-1 well, by your
25 calculation, if you had a rockless balloon, it would

1 be 1.52 feet thick?

2 A. Uh-huh.

3 Q. Under 320 acres?

4 A. Right.

5 MR. PEARCE: May I have just a minute, Mr.
6 Examiner?

7 HEARING EXAMINER: Surely.

8 MR. PEARCE: Okay. I apologize, Mr.
9 Examiner.

10 Q. Mr. Helms, let's look back, please, at your
11 Exhibit No. 8. The week to two weeks during which the
12 wells were shut in, is that period reflected in blue
13 in the upper right-hand corner of each of the single
14 well graphical displays?

15 A. That is correct.

16 Q. I am looking at the graph of the Page 3
17 Com. 2. I'm having a little trouble interpreting the
18 colors. The bottom most line on that graph appears to
19 go to zero. What does that line represent?

20 A. That's the barrels of water produced for
21 the month.

22 Q. And it would appear that in August? or--

23 A. June or July.

24 Q. --June or July, the water production in the
25 well went to zero?

1 A. Yes.

2 Q. Was something unusual done to that well?

3 A. No. The problem in a lot of these wells,
4 they're getting to the point where the rates are not
5 high enough to maintain liquid unloading in each well
6 bore and you start encountering a point where the well
7 is unable to unload all the produced fluids in the
8 well bore, and I'm sure that's what this is showing.
9 That is one reason why we started putting compression
10 on the wells.

11 Q. I'm looking, Mr. Helms, at Exhibit No. 6.
12 I would like for you to look at your copy of that
13 exhibit. Explain to me again the numbers that are in
14 bold next to each of the wells?

15 A. Those are the calculated deliverabilities
16 for each well at a tubing pressure of 300 pounds.

17 Q. And which of the wells now have compressors
18 on them?

19 A. All of the Atoka wells have compression.

20 Q. That's one of the things I didn't
21 understand. During earlier testimony about marketing
22 gas, I understood that there was a proposal to put a
23 central compression facility on all these wells?

24 A. That is true. Currently we have individual
25 well-site compressors on each well. We're evaluating

1 the possibility of having the pipeline company install
2 central compression to lower the sales-line pressure
3 throughout the field, thus eliminating the need for
4 individual well-site machines.

5 Q. Okay. And currently there are, as I
6 understand it, seven wells under compression, the
7 seven wells that Enron operates?

8 A. The seven wells that we operate are under
9 compression. The Meridian well is also on
10 compression. The John L. Cox well is not capable of
11 producing significant quantities of gas and, in fact,
12 they have proposed to plug and abandon that well.

13 Q. Okay. What is the current operating
14 pressure of these wells with compressors on them? You
15 said you were trying to calculate it down to 300?

16 A. They range, on the six wells, other than
17 the Pitchfork 34 No. 1 that Enron operates, they range
18 from 300 to 400 pounds. On the Pitchfork 34 No. 1
19 it's currently about 700 pounds.

20 Q. What is the current producing rate of the
21 Enron 34-1 well?

22 A. It's--just a minute. Let's see--3.1
23 million a day at 700 pounds flowing tubing pressure.

24 Q. And approximately what's the daily
25 producing rate of the other six wells that Enron

1 operates?

2 A. On the Diamond 5 No. 3, 1355 MCF per day at
3 330 pounds.

4 Q. I'm sorry, which well?

5 A. The Diamond 5 Fed. No. 3.

6 Q. That's 1355 presently?

7 A. 1355 MCF per day at 330 pounds of flowing
8 tubing pressure.

9 Q. And your calculation indicates 1363 at 300
10 pounds?

11 A. Yes, sir. The Madera 32 State No. 3, 1323
12 MCF per day at 420 pounds; the Madera 28 Fed. Com. No.
13 2 is 1278 MCF per day at 300 pounds; and the Madera 33
14 Fed. Com. No. 3, 1304 MCF per day at 390 pounds; the
15 Page 3 Com. No. 2, 1135 MCF per day at 400 pounds; the
16 Madera 33 Fed. Com. No. 4, 1,225 MCF per day at 410
17 pounds.

18 Q. Okay. When were the compressors put on
19 those wells?

20 A. The compressors were installed on the
21 Diamond 5 No. 3 in May of this year. The compressors
22 were installed on the Madera 32 No. 3, the Madera 28
23 No. 2 and the Madera 33 No. 3, the Page 3 Com. No. 2
24 and the Madera 33 No. 4 in the last half of October,
25 and the compression was installed in the Pitchfork 34

1 No. 1 in the first part of November.

2 MR. PEARCE: I don't have anything further
3 for Mr. Helms at this time, Mr. Examiner. Thank you.

4 HEARING EXAMINER: Thank you, Mr. Pearce.
5 Mr. Carr?

6 MR. CARR: Nothing further, Mr. Stogner.

7 HEARING EXAMINER: Ms. Callahan?

8 MS. CALLAHAN: I have nothing.

9 HEARING EXAMINER: Mr. Stovall?

10 MR. STOVALL: No, I don't have any
11 questions at this time.

12 HEARING EXAMINER: If there are no other
13 questions of Mr. Helms, he may be dismissed.

14 MR. CARR: Richard, are you ready?

15 HEARING EXAMINER: Mr. Carr, you may
16 proceed.

17 RICHARD L. STAMETS

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

20 DIRECT EXAMINATION

21 BY MR. CARR:

22 Q. Will you state your full name for the
23 record, please.

24 A. My name is Richard L. Stamets.

25 Q. Mr. Stamets, where do you reside?

1 A. I live in Santa Fe.

2 Q. What do you do for a living?

3 A. I'm a consultant.

4 Q. By whom are you employed in this case?

5 A. Enron.

6 Q. Could you briefly summarize your
7 educational background?

8 A. Yes. I have a bachelor of science degree,
9 1956, from Ohio State University in geology.

10 Q. And then following graduation would you
11 review your work experience?

12 A. I worked for an engineer here in town as a
13 groundwater geologist for a short period of time and
14 then went to work for what was then the Oil
15 Conservation Commission in October of 1957.

16 I worked here in Santa Fe two years as a
17 staff geologist, transferred to Artesia where I worked
18 as a staff geologist, worked in oil and gas proration
19 field work, just whatever was required, until 1971,
20 when I came back to Santa Fe as the technical support
21 chief, and then I was appointed Director in November
22 of 1984.

23 Q. In your capacity as technical support
24 chief, were you involved with the prorationing rules?

25 A. Yes. And not as much as I was later on,

1 but I was, to a degree. For example, I was the staff
2 chairman of the committee that worked on the revised
3 gas proration orders--rules which are now in R-8170.

4 Q. At the time they were actually adopted,
5 what was your role?

6 A. I was Director at the time they were
7 adopted.

8 Q. You signed the order approving these rules?

9 A. Yes.

10 Q. Have you remained familiar with gas
11 prorationing in New Mexico?

12 A. Yes, I have.

13 Q. Have you been called upon, in your jobs
14 with the Commission and since, to understand,
15 interpret and administer the rules and regulations
16 governing the Oil Conservation Division?

17 A. Yes, I have.

18 Q. Have you testified as an expert witness on
19 prorationing matters and Oil Conservation Division
20 rules?

21 A. Well, I'm not certain that I've done that.
22 By the time I got really heavily involved in gas
23 proration matters, I was the director; and, as such, I
24 didn't testify very often. I've done that, though, in
25 depositions in various cases in court on issues

1 between gas producers and gas transporters.

2 Q. And that's been since you left the Oil
3 Conservation Division?

4 A. Yes.

5 Q. Are you familiar with the Pitchfork
6 Ranch-Atoka Gas Pool?

7 A. Yes.

8 Q. Are you familiar with the application filed
9 in this case on behalf of Parker Drilling?

10 A. Yes.

11 MR. CARR; At this time, Mr. Stogner, we
12 would tender Mr. Stamets as an expert witness on
13 prorationing and also on rules and regulations of the
14 Oil Conservation Division.

15 HEARING EXAMINER: Are there any
16 objections?

17 MR. PEARCE: No objection.

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

20 Q. Mr. Stamets, what were you asked to do when
21 employed by Enron?

22 A. I was asked to take a look at this
23 application and the wells in the Pitchfork Ranch to
24 determine whether gas proration was reasonable and
25 appropriate in the pool, and what the impact might be

1 on the wells in the pool.

2 Q. And what did you do?

3 A. I started out by taking a look at the
4 production records that are generated by the Division.

5 Q. How far back did you go?

6 A. I looked back a fair amount of time but I
7 really concentrated on the last two and a half years
8 when the majority of the wells had been completed.

9 Q. And what did you do with this information?

10 A. I used that to generate some calculated
11 seasonal adjustment factors which the Division would
12 probably use in determining what individual well
13 allowables were or would be, and then I made some test
14 calculations of what allowables would have been in the
15 past, if those factors had been used.

16 Q. So you estimated what the effect of
17 prorationing would have been if, in fact, it had been
18 implemented prior to this time?

19 A. Well, not exactly, but I've used the same
20 basic procedures to try and tell me what we're looking
21 at, which wells would be marginal, which would be
22 nonmarginal, what the overall impact of gas proration
23 would be.

24 Q. And in making this study, what market
25 demand did you assume?

1 A. Well, I'm not certain that I assumed any
2 particular market demand. I simply used the
3 production that has been shown for that two and a half
4 year period, and the system that the Division uses is
5 one that's designed to allocate the demand to the
6 wells in the pool, and that's basically what I did in
7 this period.

8 Q. Let's go to what has been marked as your
9 Exhibit No. 12, and I would ask you to go to the first
10 page and identify this, please.

11 A. Page 1 is the example of how I calculated
12 the seasonal adjustment factors. If you look in the
13 left-hand column, you'll see that I have the year,
14 then the months.

15 The next column would be production and
16 this would be production from all the wells in the
17 pool for that particular month.

18 In calculating the first seasonal
19 adjustment factor, let's just take a look at June,
20 what I did was divide June's production into August's
21 production, the basic concept being that the Division
22 uses now, they take the production from the current
23 month to set the allocation for the nonmarginal wells
24 in the second month hence.

25 So, if you multiply the 445,109 times the

1 adjustment factor there, you would find it would come
2 out almost precisely at the August production, which
3 is what the intent is of the Division, except they use
4 10-year averages. I didn't have 10 years, but I had
5 two years that I could use here, so I made my
6 calculations based upon production for the period of
7 June '87 on up through June of '89.

8 Q. All right. And that's where you get the
9 calculated seasonal adjustment factor shown in
10 Column D on page 1?

11 A. That is correct.

12 Q. What is shown in Column E?

13 A. Column E is just the average of those same
14 months for the two-year period. For example, you take
15 the June '87 of 1.076, June of '88 of 1.157, that will
16 average out at 1.116.

17 Q. Okay. Then we go on across the exhibit and
18 in Column F, again you have the year?

19 A. That's correct.

20 Q. "G" is the month, and then what is "H"?

21 A. That's the calculated allowable which would
22 result from, in the first case, from multiplying June
23 1987 production times the average calculated seasonal
24 adjustment factor in Column E, and you come up with a
25 calculated pool allowable.

1 Q. That's the production in Column C times the
2 factor in Column E gives you the calculated pool
3 allowable?

4 A. In Column H, that's correct.

5 Q. And Column I is?

6 A. Simply the number of wells that were
7 existing at that time.

8 Q. And the last column on this page?

9 A. Is Column H divided by Column A. The
10 average, just a straight arithmetic average for the
11 number of wells in the pool.

12 Q. When we get over on the June 1987 line to
13 the figure in Column J of 70,975, what does that
14 number represent?

15 A. That's the nonmarginal allocation to all
16 seven wells that were existent at the time if there
17 had been an allocation in August of 1987.

18 Q. Are these the MCFs per month that each well
19 would get to produce?

20 A. Correct.

21 Q. Let's go to page 2, and I would ask you to
22 explain what you've set forth on that page of this
23 exhibit.

24 A. What I've done in page 2 is go back to
25 April of 1988, April being the beginning of a gas

1 proration period, and I've plugged in the allowables
2 that I have calculated from the first page of this
3 exhibit.

4 Perhaps the easiest thing to do is just
5 take a look at the first well, which is the John Cox
6 well. If you come over into Column B, you'll see that
7 the first line is the production line and then the
8 allowable line, then the over/under line, and then
9 cumulative.

10 When we move into Column C, we can see that
11 the production from the John Cox well was a little
12 over 19,000. The allowable was a little over 52,000,
13 resulting in underproduction--any time you see a
14 positive number in the over/under column that's
15 underproduction--of over 33,000.

16 The cum. would be the same number in the
17 month of April because that's where we start. And, as
18 you go from left to right, you can see how the cum.
19 figures will change.

20 In the case of the Cox well, it's always
21 underproduced every month, and so you wind up with a
22 pretty large amount of underproduction at the end of
23 March of that year.

24 Q. And how would this well be classified,
25 then?

1 A. Well, the classification process would not
2 normally work until the end of the next four months of
3 the next gas proration period, during which, if it did
4 not produce a nonmarginal allowable, it would be
5 reclassified as marginal. So, it would be something
6 in the order of six months into the next year before
7 that classification would take place.

8 But, if you just look at it, to me this is
9 clearly a marginal well. It's a well that's unable to
10 make its nonmarginal allowable.

11 Q. Let's look at the next well on this
12 exhibit, the Diamond 5 Fed. No. 3. And without going
13 into quite as much detail, explain what this shows.

14 A. The same process was used. I took the
15 actual production from the Division records, I took
16 the same allowables, since all nonmarginal wells would
17 get the same allowable, and you can see this is a well
18 which overproduced every month but the month of March
19 for that theoretical proration year, and it has an
20 overproduced status at the end of each month.

21 Q. And how would this well be classified, in
22 your opinion, when the classification process worked
23 into the first period?

24 A. This is a well which would be nonmarginal.

25 Q. All right. Now, could we go down to line

1 66 on this exhibit there labeled on the margin? I
2 would ask you to review what is contained on that
3 line.

4 A. Wells are only allowed to overproduce their
5 average monthly allowable for the last 12 months by a
6 factor of six, and so what I've done is gone through
7 and calculated the six times overproduced limit for
8 these wells using these same theoretical allowables.

9 Q. And what was the purpose of page 2 of this
10 exhibit? What were you trying to determine here?

11 A. Well, page 2, then, along with the next
12 page, page 3, are ones that I came up with just to
13 give me an idea of how prorationing would have worked
14 had it been applied on the assumption that if you
15 apply it in the future, it's going to work basically
16 the same way.

17 Q. Let me ask you a couple of other questions
18 on page 2. Based on the six times overproduced
19 figure, how many wells would actually have been
20 subject to a shut in?

21 A. Only the Pitchfork 34 Fed.

22 Q. If you look at the production for April
23 1988, how does that compare with the production for
24 December and January of 1989?

25 A. As far as I know, in every instance the

1 April production was greater than the December/January
2 production.

3 Q. What does that suggest to you?

4 A. It suggests to me that the market demand is
5 there for essentially everything that can be produced,
6 and that the pool as a whole, on the individual wells,
7 are defining their capacities.

8 Q. Let's go to page 3. Could you review any
9 information contained on page 3 that you haven't
10 already covered on page 2.

11 A. This is the same basic process. It just
12 begins what would be the second proration year, April
13 of '89, and carries that through August. The
14 allowables are there for September and October, but I
15 ended the calculations with the August production.

16 Q. Have you been able, from this information,
17 to estimate how many pools would be classified as
18 nonmarginal at the end of the second prorationing
19 year?

20 A. In my view, there would only be four wells
21 which would be nonmarginal based on what I've given
22 here; the Diamond 5 Fed., the Madera 28 Fed. Com. 2,
23 Pitchfork 34 and the Meridian well.

24 However, when I went back and made
25 calculations of what would happen if those four wells

1 were the only nonmarginal wells, the Madera well falls
2 out just immediately. It's clearly marginal.

3 So when I made further calculations, I just
4 left that one out and dealt with what are clearly the
5 better wells, the Diamond, the Pitchfork and the
6 Meridian well.

7 Q. Now, let's go down to line 75 and I would
8 ask you what this shows?

9 A. What line 75 represents is the monthly
10 production from the three wells that I've just named,
11 the wells that I believe are clearly nonmarginal
12 wells.

13 Q. And you get that simply by totaling the
14 monthly production from those wells?

15 A. That's correct.

16 Q. Are you ready to go to page 4?

17 A. Yes.

18 Q. Would you identify and review that, please?

19 A. What I've done with page 4 is go back and
20 use the same seasonal adjustment factors that I
21 determined on page 1, for the same period beginning
22 April of 1988, and I've determined what the
23 nonmarginal allowable would be for these three wells
24 based upon their production times that seasonal
25 adjustment factor.

1 Q. Basically you've done here the same thing
2 you did on page 1, except now you're just looking at
3 the three nonmarginal wells?

4 A. Yes. I determined the factors on page 1.
5 Now I'm making the allocation based on the previously
6 determined factors.

7 Q. And the calculated allowable for each of
8 these wells is set forth in Column I, is that correct?

9 A. Yes.

10 Q. Let's move on now to page 5 and I would ask
11 you to review what's shown on this page of the
12 exhibit.

13 A. Okay. If we take a look at page 5, you can
14 see I have all the wells listed but I only go into the
15 allowable, over and under status and cum. status for
16 the three wells.

17 You can see there, again, that pretty soon
18 the Diamond Fed. well ceases to produce in excess of
19 its allowable. It starts underproducing. The same
20 thing is true of the Meridian well. The only well
21 that's producing more than its allowable is the
22 Pitchfork 34 well.

23 If we move on to the last page of this
24 exhibit, you can see that that continues.

25 Q. And what conclusion can you draw from this?

1 A. Well, my conclusion is that it appears to
2 me there's only one nonmarginal well in the pool and
3 the other wells are marginal, under an appropriate
4 acreage-based proration system. They ought to be
5 classified as marginal, be allowed to produce what
6 they could. Since prorationing is designed to
7 allocate market demand to the wells, then the
8 Pitchfork 34 would be getting the allocation and it
9 would be restricted somewhat because of the way you
10 calculate the seasonal adjustment factors.

11 If you went through this process for real,
12 surely you would accumulate some overproduction, so
13 there would be some restriction for a period of time
14 but after awhile it would be, essentially,
15 unrestricted. It looks like an exercise in futility.

16 Q. In your opinion will prorationing work in
17 this field?

18 A. It will work to limit production from one
19 of the wells for a period of time, but after that, no,
20 it won't be effective. It will work but it won't be
21 effective.

22 Q. Traditionally, Mr. Stamets, what has been
23 the basis for the implementation of prorationing in
24 New Mexico? That is, under what circumstances would
25 the Division prorate a pool?

1 A. Well, the Division is allowed to prorate to
2 prevent waste, and when they allocate to prevent
3 waste, generally, as far as I know in 100 percent of
4 the accident cases, they have a situation where the
5 capacity of the wells in the pool exceeds market
6 demand. Those are the two main factors, I think.

7 Q. If waste is not occurring in a reservoir,
8 in your opinion does the Division have authority to
9 implement prorationing?

10 A. No.

11 Q. In your opinion are conditions in this pool
12 such that would warrant the implementation of
13 prorationing at this time?

14 A. Not based on what I've heard here today.

15 Q. What are the other factors the Division
16 looks to in determining whether or not to implement
17 prorationing?

18 A. They aren't necessarily factors on
19 implementation, but once you get into a situation
20 where proration is to be implemented, you're concerned
21 about things like unorthodox locations, nonstandard
22 proration units, multiple pipelines, all of which
23 factors could impact allowables to individual wells.

24 Q. Are you aware of any of these factors that
25 exist in this pool that would justify implementation

1 of prorationing?

2 A. The only factor that seems to apply at all
3 is the situation where you've got two pipelines, but
4 we haven't had any evidence here that that's having
5 any negative impact in the pool.

6 Q. In your opinion, what impact overall would
7 the implementation of prorationing have on production
8 from this pool?

9 A. It would reduce production from the pool
10 for a period of time.

11 Q. Are you aware, based on your experience
12 working with prorationing, of any precedent for
13 utilizing prorationing as Parker seeks here today?

14 A. You mean, to attempt to restrict the
15 production from one well?

16 Q. Are you aware of any time when prorationing
17 has been utilized to do that?

18 A. No.

19 Q. Do you see any potential danger in
20 approving this kind of an application in terms of
21 future precedent?

22 A. I can visualize instances where some party
23 who drilled into kind of a tight streak offsetting a
24 good well might come in and ask the Division to limit
25 production to what his well can produce so that he

1 won't be drained.

2 Q. Would you recommend that prorationing be
3 instituted in the Pitchfork Ranch-Atoka Gas Pool?

4 A. No.

5 Q. If the Division should decide to implement
6 prorationing, do you have any recommendations
7 concerning how that should be done?

8 A. Yes. In view of what I've done here, I
9 think that if it should be implemented, the Order
10 ought to say that all the wells would be deemed to
11 have entered the first month of the proration period
12 in an underproduced status, and this would allow for
13 the most rapid reclassification of wells to marginal.

14 Q. Do you believe there's sufficient data on
15 this reservoir to warrant this kind of an action?

16 A. For prorationing?

17 Q. Yes.

18 A. No.

19 Q. Do you believe that there's sufficient
20 information to justify bringing wells in in an
21 underproduced status?

22 A. Yes, I think so. I believe that there's
23 clear justification for that.

24 Q. In your opinion, will granting this
25 application prevent waste?

1 A. Granting the application? I was
2 unconvinced by any evidence here that any waste would
3 result if the application is not granted.

4 Q. Was Exhibit 12 prepared by you?

5 A. Yes.

6 MR. CARR: At this time, Mr. Stogner, I
7 move the admission of Enron Exhibit No. 12.

8 HEARING EXAMINER: Are there any
9 objections?

10 MR. PEARCE: No objection.

11 HEARING EXAMINER: Exhibit 12 will be
12 admitted into evidence at this time.

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

15 HEARING EXAMINER: Thank you, Mr. Carr.
16 Mr. Pearce?

17 MR. PEARCE: Thank you, Mr. Examiner.

18 EXAMINATION

19 BY MR. PEARCE:.

20 Q. Mr. Stamets, I want to spend a few minutes
21 understanding what we have here in Exhibit No. 12.
22 This study, the first part of this study, dealing with
23 all the wells in the pool--

24 A. Yes.

25 Q. --represents what the proration system

1 would have accomplished if it had begun operation in
2 June of 1987?

3 A. In part. It's not a precise mirror image
4 of what would have happened. It was done primarily to
5 tell me whether the system was going to be effective,
6 and which wells would be nonmarginal or marginal.

7 Q. All right. Let's take a look at how your
8 study works. June of 1987, production is 445,000 MCF,
9 is that correct?

10 A. Yes.

11 Q. And, as I understand it, if you would have
12 known ahead of time, in that particular instance you
13 went backwards, but that would have come up with, in
14 your opinion, an allowable for August of 478,000? Is
15 that what I understand there?

16 A. If you just use the first factor, the one
17 in Column D.

18 Q. Okay.

19 A. But I averaged two years. The Division
20 uses 10, I did two because I had two full, good years
21 with most of the wells on, and so that's what I used.

22 Q. That brought you to the 1.116 seasonal
23 adjustment factor?

24 A. Yes.

25 Q. And under your study, as you performed it,

1 June production of 445,109 MCF would have resulted in
2 an August of 1987 allowable of 496,824?

3 A. That's correct.

4 Q. All right. And if that allowable had been
5 assigned to the pool for August of 1987, each well in
6 the pool, as I understand this study, would have
7 received an allowable of 70,975?

8 A. That's correct.

9 Q. All right. And what would the actual
10 production have been from that pool if each well in
11 the pool received an allowable of 70,975?

12 A. I would have to assume that based on what
13 really happened, they would have produced 478,755,
14 which is what they did produce.

15 Q. I'm sorry. I thought you indicated that
16 not all the wells would produce 70,000?

17 A. Oh, that's true.

18 Q. Okay. How much would the pool have
19 produced if each well had received an allowable of
20 only 70,975?

21 A. I'm making the assumption, Mr. Pearce, that
22 we've started the allocation just a month or two prior
23 to August. And by that time, you know, there would be
24 really no history on the pool, no one would be
25 overproduced or underproduced to any great degree, and

1 so the actual production probably would have been what
2 they actually produced. I may be missing the point of
3 your question here.

4 Q. Well, let's go much further down in the
5 system and help me understand the assumptions we've
6 got built into your study. January of 1989--

7 A. Okay.

8 Q. --you show actual production of 367,482
9 MCF?

10 A. Yes.

11 Q. What was the allowable for January of 1989?

12 A. Okay. That would be in Column H, it would
13 have been 382,116.

14 Q. And, according to your study, as I
15 understand it, each well in the pool would have
16 received 42,457 MCF of allowable?

17 A. That's correct.

18 Q. What was the actual production of the 34-1
19 well for the month of January 1989?

20 A. That looks like 100,434.

21 Q. 100,434. It appears to me, Mr. Stamets,
22 that your study of monthly allowables is greatly
23 inflated because it assumes that every well has
24 produced the same amount of gas that it would produce
25 without proration being in effect? We have a two and

1 a half year study of a proration system without the
2 proration system being allowed to operate to restrict
3 production from the pool in any way. Isn't that
4 assumption built into all of your data?

5 A. If I understand you, I think that's
6 correct. And, as you'll recall, I said I didn't try
7 to exactly mirror the State system.

8 For example, it's clear to me that the
9 Pitchfork 34 well would have been more than six times
10 overproduced at the end of August, and would have been
11 required to have shut in.

12 Q. And that is in August of what month, sir?
13 Where are you looking? Direct my attention, please.

14 A. I'm on the second page of the exhibit, and
15 looking at Column G, about line 52, you've got the
16 cum. overproduction of 341,937.

17 Q. Yes, sir.

18 A. Which is more than the allowed limit. Of
19 course, you wouldn't know that for a couple of months,
20 but a couple of months after that it would be shut in
21 for six times overproduction. And I've not attempted
22 to get into that detail because that wasn't the
23 purpose of this study.

24 Q. So the allowable in each succeeding month
25 is still inflated by the amount which the 34-1 well

1 actually produced, when, in fact, the proration system
2 would have shut that well in?

3 A. That's correct. That's correct. You would
4 have had lower allowables if you would have had one of
5 the wells shut in.

6 Q. And, if I understand correctly, if you had
7 lower allowables, you might, in fact, have more
8 nonmarginal wells than your study indicates?

9 A. Oh, perhaps. Let's see. Yeah, it's
10 possible.

11 Q. Thank you.

12 A. Pull the allowable for the pool down.

13 Q. As part of the services that you performed
14 for Enron in preparing for this case, did you do a
15 study of this reservoir?

16 A. No.

17 Q. Do you have any information, other than the
18 impression you gave us, of whether or not waste would
19 be prevented if prorationing were instituted in this
20 pool?

21 A. The only evidence that I've heard brought
22 forward by anybody was your own witness, and like I
23 say, I'm just simply unconvinced by that.

24 Q. Enron is pleased to hear that, Mr. Stamets.

25 A. I'm sure they are.

1 Q. You haven't studied waste and you've based
2 the conclusion that a proration system is unreasonable
3 on a system which is assigned inflated allowables and
4 possibly inflated the number of marginal wells; is
5 that correct?

6 A. Well, it's clear to me now that perhaps I
7 should have gone a step further and analyzed that.
8 Again, I don't think that what we're looking at here
9 is something that is really significant in this pool,
10 that you've got basically what are a bunch of wells
11 that can't produce any more than they're currently
12 producing; they are wells which contribute to the pool
13 production, don't really have any additional
14 capacity. And, in my view, that's what a marginal
15 well is. I don't recall that the intent of the law is
16 to reduce production in a pool unless it's necessary
17 to prevent waste.

18 Q. And you haven't done a study to determine
19 whether or not waste is occurring?

20 A. That's not part of the obligation on me or
21 on Enron in this case. I believe that's an obligation
22 that's on the Applicant, Parker. I don't believe that
23 they've met that.

24 MR. PEARCE: I don't have anything further
25 for Mr. Stamets. Thank you, Mr. Examiner.

1 HEARING EXAMINER: Mr. Carr?

2 FURTHER EXAMINATION

3 BY MR. CARR:

4 Q. Mr. Stamets, I believe you stated that you
5 were not intending to duplicate the prorationing
6 system?

7 A. Correct.

8 Q. You testified as part of your direct
9 testimony that at the time pointed out in Mr. Pearce's
10 cross-examination that the 34 No. 1 would have been
11 shut in at that time, isn't that right?

12 A. That's correct.

13 Q. And you've also stated that if you had
14 reduced the production in your study from that well,
15 that it would have changed the allowable and perhaps
16 changed the number of nonmarginal wells in the time
17 period reflected in this study, is that correct?

18 A. That is correct.

19 Q. All that in mind, does that change your
20 basic conclusion about the applicability of
21 prorationing to this field?

22 A. No.

23 MR. CARR: I have nothing further.

24 HEARING EXAMINER: Thank you, Mr. Carr.
25 Ms. Callahan?

1 MS. CALLAHAN: I have nothing.

2 HEARING EXAMINER: Mr. Stovall?

3 MR. STOVALL: Just one.

4 EXAMINATION

5 BY MR. STOVALL:

6 Q. Mr. Stamets, did you look at the actual
7 seasonal adjustment factors used by the Division
8 during this time period?

9 A. Well, there would not be any seasonal
10 adjustment factors applicable to this pool because
11 those were all individually calculated for each pool
12 by the chief engineer based upon 10 months or 10 years
13 of production history for those pools.

14 Q. And you didn't look at any average of the
15 pools under the prorationing system or anything like
16 that?

17 A. No, because they would jump all over the
18 place.

19 MR. STOVALL: Okay.

20 HEARING EXAMINER: Are there any other
21 questions of this witness? If not, you may be
22 excused.

23 Mr. Carr, do you wish to recall any of your
24 witnesses at this time?

25 MR. CARR: No, sir.

1 HEARING EXAMINER: Mr. Pearce?

2 MR. PEARCE: No, sir.

3 HEARING EXAMINER: I guess we're ready for
4 closing remarks. Mr. Carr, I'll ask you to go first
5 and Mr. Pearce, I'll let you finish up. Ms. Callahan,
6 would you like to make any remarks?

7 MS. CALLAHAN: No, I'll pass.

8 MR. CARR: May it please the Examiner, we
9 submit to you that Parker Drilling is before you today
10 trying to use the regulatory system to address what is
11 basically a contract problem. They entered a drilling
12 contract and it didn't work out as they expected.
13 They didn't get paid as fast as they thought, and they
14 didn't have to reassign the interest to Enron.

15 What they want to do is come in and prorate
16 a pool and limit production from the best well in the
17 pool so that the other wells will produce more. And
18 the way to do that is to come in and ask you to
19 prorate the Pitchfork Ranch-Atoka Gas Pool, a pool
20 which, just with the wells in that pool, they would
21 have paid off the contractual obligations under the
22 Enron-Parker Drilling contract.

23 And so we have a case for prorationing, the
24 first one in many years, and it's important to look at
25 what this Division's jurisdiction is in implementing

1 prorationing. The statute is clear. Section 72-16(B)
2 starts off by noting that you may prorate but first
3 you have a threshold of consideration and that is,
4 there must be a showing that waste will occur, that
5 you need to prorate to prevent waste.

6 Well, what does the record in this case
7 actually show? It shows that on behalf of Enron there
8 have been prudent operations, there's no issue as to
9 that; that the wells are producing virtually at
10 capacity. There are no complaints at all about the
11 methods employed by Enron in the operation of this
12 field.

13 So Parker needs a waste argument, and what
14 do they come in with? A model of the reservoir where
15 they show us the output, not the input figures, and
16 they say, yes, if you prorate on straight acreage,
17 you'll come up with 4.4 percent additional recovery
18 with prorationing as opposed to continued operations
19 without. And they rely on this model and, at the same
20 time, their expert witness, Mr. Ausburn, tells you it
21 has a range of error of five percent.

22 Their waste calculation, their waste
23 argument, falls within the range of error in their
24 model. They have not proven the threshold thing they
25 must prove, that waste will occur. A mere suggestion

1 should not carry the day on that count and, therefore,
2 prorationing of this pool is inappropriate.

3 Traditionally, the Commission looks at four
4 factors in deciding whether or not to prorate a pool.
5 None of them are present here. We have no nonstandard
6 spacing unit, we have all wells at standard locations,
7 there is no discrimination in this reservoir because
8 of the fact that there are two purchasers where both
9 purchasers are taking all the gas that the wells in
10 the pools can make.

11 We don't have a situation where there is
12 deliverability in excess of market demand. Here,
13 everything produced can be sold. None of the four
14 factors are there. Again, prorationing is
15 unwarranted.

16 I submit to you further that straight
17 acreage prorationing on this record simply cannot be
18 approved by you. In the case Continental v. The Oil
19 Conservation Commission, straight acreage prorationing
20 was approved because no other method was practicable.
21 That's what the Supreme Court found.

22 Practicability of other methods is the test
23 for whether or not you can go forward with straight
24 acreage because it doesn't take into account
25 variations within the reservoir.

1 This question was again addressed in Grace
2 v. The Oil Conservation Commission, and again the
3 Court found that straight acreage was okay if other
4 methods are not practicable.

5 Mr. Ausburn testified today that you can
6 prorate based on deliverability, or gas in place, or
7 recoverable reserves, that within the engineering
8 discipline you could determine that reserves in the
9 pool and what was under each tract, or the gas in
10 place in the pool and the gas in place under each
11 tract, all could be practicably determined.

12 Here, the tracts do have varying values and
13 the values can be practicably determined, and under
14 New Mexico law and on this record you cannot approve
15 Parker's application. To do so, you violate the
16 directive of the courts in Continental and in Grace.

17 This application must be denied. If there
18 is a problem here because they happen to have wells
19 offsetting the best well in the pool, which we all
20 admit, if they had that problem, they have fashioned a
21 remedy which is inappropriate, prorationing.

22 You can attack Mr. Stamets for not having
23 exactly duplicated prorationing in his study, which he
24 was never asked to do, but he has demonstrated that
25 prorationing simply won't work. Over time there will

1 only be one nonmarginal well in the pool. The rest
2 are marginal. They produce what they can.

3 If the balance of the market is distributed
4 among the nonmarginal, there is only one, and except
5 for the fact that the whole system is torqued because
6 of the process you go through in implementing
7 prorationing, the bottom line is ultimately
8 prorationing really won't mean anything at all except
9 a temporary reduction in production from the pool, out
10 of the 34 No. 1 well, production that will be made up
11 elsewhere, not from this pool, because every well in
12 this pool is producing at capacity.

13 Precedent for this? Absolutely not. There
14 is none. Can you make precedent in this case? You
15 certainly can. You can set a precedent, and I would
16 submit a terrible precedent, where prorationing is not
17 a tool to prevent waste but it becoming only a tool to
18 protect correlative rights.

19 You have a situation where if you're going
20 to use it to protect against drainage and you take
21 this argument that they are advancing to its logical
22 conclusions, you won't be applying it in cases where
23 you're looking at the best well in the pool. You'll
24 have to start looking at the worst well in the pool
25 and pulling everything down to it. Because when you

1 apply prorationing and try and use it in the context
2 of correlative rights, that's where it logically takes
3 you, and you penalize wells for one reason alone,
4 that's because there are better wells, better for
5 geologic and engineering reasons, and they're taking a
6 regulatory system and applying it in an improper way.

7 Parker's drilling contract didn't work out.
8 It didn't work out very well for Enron, either. They
9 still have 85 percent of our working interest in each
10 of these wells which we long ago thought we would have
11 back. But to solve this situation, Parker proposes
12 reformation of the prorationing system.

13 We simply submit that the oil and gas
14 regulations of the State of New Mexico are not a
15 contract they allowed for Parker Drilling Company, and
16 that the application has to be denied.

17 HEARING EXAMINER: Thank you, Mr. Carr.
18 Mr. Pearce?

19 MR. PEARCE: May it please the Examiner,
20 Parker Drilling Company is an interest owner in six
21 wells in the Pitchfork Ranch-Atoka Pool. Enron's
22 witness testified on this record to the working
23 interest held by Parker Drilling Company. We've got a
24 working interest owner, nonoperator, who has filed an
25 application with this Division to prorate a pool to

1 prevent waste. The only evidence before you is that
2 failure to prorate this pool will cause waste.

3 Mr. Ausburn testified that in his
4 professional, expert opinion, it is more likely than
5 not that in fact waste will, in fact, be prevented,
6 that the margin of error does not explain the
7 consistent pattern of increased production from this
8 pool if proration is instituted.

9 Section 70-2-16(C), "Whenever to prevent
10 waste the total allowable of natural gas from gas
11 wells producing from any pool in the State is fixed in
12 an amount less than that which the pool could
13 produce." Yes, as Mr. Stamets said, for a period of
14 time, production will be reduced. That is precisely
15 what the statute envisions to prevent waste.

16 The only evidence in this record is
17 evidence that waste is going to occur if this pool is
18 not prorated. Mr. Helms, the expert engineering
19 witness for Enron, didn't know what the initial gas in
20 place, under the 320 acres dedicated to the 34-1 well,
21 was. Well, our engineer calculated it. He calculated
22 about 2.4 bcf on numbers that essentially agreed with
23 Mr. Helms' numbers. The cumulative production to date
24 of the 34-1 well is 8 bcf in July.

25 They start out with 2.4 bcf under their

1 proration unit, they produce 8 bcf so far, and they're
2 still going. And they're causing waste. Parker
3 Drilling is an interest owner who wants to protect its
4 correlative rights and wants to prevent waste in the
5 pooling. That's what the Oil & Gas Act talks about
6 doing.

7 Mr. Helms didn't know what the reserves
8 were now. If you went back right now and, as an
9 alternative basis for proration, you prorated this
10 pool on the basis of original gas in place, you would
11 have to plug the 34-1 well. It's more than three
12 times the reserves it had available to it to begin
13 with. Enough is enough. Waste is occurring. Other
14 interest owners in this pool are being damaged.
15 Proration on surface acreage basis, the traditional
16 method, is available, and will help.

17 In Continental Oil, somebody was trying to
18 go back in and change a proration system. That's not
19 the situation we've got here. Is some other proration
20 method possible? Maybe. Those calculations haven't
21 been done. They've been done on surface-acreage
22 basis. That system will prevent waste, will protect
23 correlative rights better than they're presently being
24 protected.

25 Those are the two hallmarks of Oil

1 Conservation Division authority. I submit to this
2 record that the tests have, in fact, been met. This
3 pool ought to be prorated to prevent waste. Thank
4 you.

5 HEARING EXAMINER: Thank you, Mr. Pearce.
6 Does anybody else have anything further in Case No.
7 9838?

8 I would like rough drafts from you, Mr.
9 Pearce, and you, Mr. Carr. What would be a sufficient
10 amount of time?

11 MR. CARR: 10 days.

12 MR. PEARCE: 10 days.

13 HEARING EXAMINER: 10 days from today. A
14 week from Friday. January 12th is a Friday. Is that
15 sufficient?

16 MR. PEARCE: Okay.

17 MR. CARR: That's sufficient.

18 HEARING EXAMINER: Thank you. In that
19 case, I'll take this case under advisement pending
20 receipt of the rough draft orders. Let's take about a
21 15-minute recess and then we'll finish up with the two
22 remaining cases.

23

24

25

1 CERTIFICATE OF REPORTER

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

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

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

17 WITNESS MY HAND AND SEAL January 9, 1990.

18 
19 CARLA DIANE RODRIGUEZ
20 CSR No. 91

21 My commission expires: May 25, 1991
22

23 I do hereby certify that the foregoing is
24 a complete record of the proceedings in
the Examiner hearing of Case No. 9838,
25 heard by me on 27 December 1989.


Examiner
Oil Conservation Division