

1 STATE OF NEW MEXICO
2 ENERGY AND MINERALS DEPARTMENT
3 OIL CONSERVATION DIVISION
4 STATE LAND OFFICE BLDG.
5 SANTA FE, NEW MEXICO

6 8 January 1986

7 COMMISSION HEARING

8 IN THE MATTER OF:

9 Application of Yates Petroleum Cor- CASE
10 poration for an exception to the 8614
11 Special Rules and Regulations for
12 the Bluit-San Andres Associated
13 Pool as promulgated by Division
14 Order R-5353, as amended, Roosevelt
15 County, New Mexico.

16 BEFORE: Richard L. Stamets, Chairman
17 Ed Kelley, Commissioner

18 TRANSCRIPT OF HEARING

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I N D E X

DAVID BONEAU

Direct Examination by Mr. Losee	5
Cross Examination by Mr. Carr	15
Cross Examination by Mr. Stamets	22

BURL KEITH MCKEEL

Direct Examination by Mr. Carr	24
Cross Examination by Mr. Losee	28

TED EDWARD DUFF

Direct Examination by Mr. Carr	30
Cross Examination by Mr. Losee	38
Cross Examination by Mr. Stamets	52
Recross Examination by Mr. Losee	55

DAVID BONEAU

Redirect Examination by Mr. Losee	57
Recross Examination by Mr. Stamets	60
Recross Examination by Mr. Carr	64

STATEMENT BY MR. CARR	68
-----------------------	----

STATEMENT BY MR. LOSEE	72
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1
2
3
4
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11
12
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14
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16
17
18
19
20
21
22
23
24
25

E X H I B I T S

Yates Exhibit One, Map	6
Yates Exhibit Two, Chronology	8
Yates Exhibit Three, Plot	13
Yates Exhibit four, Plot	13
Yates Exhibit Five, Diagram	14
Yates Exhibit Six, Data	14
Yates Exhibit Nine, Compilation	57
Yates Exhibit Ten, Diagram	57
Yates Exhibit Eleven, Diagram	57
Yates Exhibit Twelve, Diagram	57
Union Oil Exhibit One, Structure Map	25
Union Oil Exhibit Two, Cross Section	26
Union Oil Exhibit Three, Plat	33
Union Oil Exhibit Four, Plat	33
Union Oil Exhibit Five, Data Sheet	34
Union Oil Exhibit Six, Diagram	34

1
2
3
4
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MR. STAMETS: The hearing will please come to order.

We'll call next Case 8614.

MR. TAYLOR: The application of Yates Petroleum Corporation for an exception to the special rules and regulations for the Bluit-San Andres Associated Pool as promulgated by Division Order R-5353, as amended, Roosevelt County, New Mexico.

MR. STAMETS: Call for appearances in this case.

MR. LOSEE: Mr. Chairman, A. J. Losee, Losee and Carson, Artesia, New Mexico, appearing on behalf of Yates Petroleum Corporation.

MR. CARR: May it please the Commission, my name is William F. Carr with the law firm Campbell and Black, P. A., of Santa Fe.

We represent Union Oil Company of California in this matter and I have two witnesses.

MR. STAMETS: Mr. Losee, how many witnesses do you have?

MR. LOSEE: I have one witness today.

MR. STAMETS: I'd like to have all the witnesses stand and be sworn at this time, please.

1 (Witnesses sworn.)

2
3 DAVID BONEAU,

4 being called as a witness and being duly sworn upon his
5 oath, testified as follows, to-wit:

6
7 DIRECT EXAMINATION

8 BY MR. LOSEE:

9 Q State your name, please.

10 A David Boneau.

11 Q Where do you live?

12 A I live in Artesia, New Mexico.

13 Q You're employed by whom?

14 A I'm employed by Yates Petroleum Corpora-
15 tion.

16 Q In what capacity?

17 A I work at Yates as Engineering Manager.

18 Q Have you previously testified before this
19 Commission and had your qualifications as an engineer accep-
20 ted?

21 A Yes, sir.

22 MR. LOSEE: Are Mr. Boneau's
23 qualifications acceptable?

24 MR. STAMETS: He is considered
25 qualified.

1 Q Would you explain to the Commission what
2 Yates Petroleum Corporation is seeking in this case?

3 A In Case 8614 Yates Petroleum is asking
4 the Commission to authorize both the unorthodox location and
5 a nonstandard spacing unit for a well called Bluestem "ZL"
6 Federal No. 1. This well is located in the Bluit San An-
7 dres Associated Pool. The exact location is 1650 from the
8 north and 2310 from the east of Section 20, 8 South, 38
9 East.

10 The proposed 160-acre spacing unit con-
11 sists of the south half of the northeast quarter and the
12 north half of the southeast quarter of the Section 20.

13 This case was heard at an Examiner Hear-
14 ing in June; I believe it was June 19th, 1985. Order R-8025
15 was issued on September 18th, 1985. This order authorized
16 the unorthodox location and approved the 160-acre spacing
17 unit but it set an allowable factor of approximately 34-1/2
18 percent for the Bluestem Well.

19 Yates believes the allowable factor
20 should be 85 percent.

21 Q Would you show us where the Bluestem Well
22 is located as related to other wells in the Bluit San An-
23 dres Associated Pool?

24 A Yes. That's shown on Exhibit One, which
25 is a map of the area of the Bluit San Andres Field.

1 On that map, Jerry, the -- all the wells
2 in the Bluit San Andres Field are shown. The green wells
3 are producing oil wells. The red wells are producing gas
4 wells, and the Bluestem is a gas well. The blue colored
5 triangles are nonproducing wells, shut-in or plugged and
6 abandoned.

7 The Yates' acreage is indicated in the
8 orange. It think it will become relevant, Union's acreage
9 is colored in the yellow. The Bluestem Well itself is indi-
10 cated by the one-inch long red arrow pointing to the red
11 square.

12 The Bluestem Well is located 1650 from
13 the north and 2310 from the east of Section 20 towards the
14 right side of the map. This puts it 330 feet from the north
15 and west lines of the Yates lease.

16 Union operates a well called Federal 20
17 No. 1 in Unit B of Section 20, which is just to the north of
18 the Bluestem Well.

19 Other things to notice include two gas
20 wells operated by Tenneco in Units C and D, which are also
21 red squares. Also we should notice that there are other gas
22 wells, I believe there's a total of eight or nine, indicated
23 by the red squares, that produce in the Bluit San Andres
24 Field. Each of these, with one exception, is located 660
25 feet out of the corner of the lease. The exception is the

1 Tom Ingram well in Section 24, Unit C of Section 24. As far
2 as I know, none of these other wells have a limitation on
3 production.

4 I think that covers sort of a picture of
5 what we're talking about on the Bluestem.

6 Q Let me ask one other question, Mr.
7 Boneau.

8 The special -- are there special pool
9 rules for the San Andres Associated Pool?

10 A Yes, sir.

11 Q And the spacing for those, under those
12 special pool rules for gas wells on 320 acres is 990 feet
13 out of the corner, is that correct?

14 A Yes, sir.

15 Q That would be the closest orthodox loca-
16 tion to a corner.

17 A Yes, sir, that's correct.

18 Q So that the Bluestem Well is unorthodox,
19 that is, 330 feet out of the corner.

20 A Yes, sir, and the further point I was
21 making was other gas wells are 660 out of the corner.

22 Q All right. Would you outline the history
23 of the Bluestem Well for the Commission?

24 A On Exhibit Two I've listed just a chrono-
25 logy of some of the events in the life of this well.

1 realized that they had drilled it nonstandard and on an un-
2 orthodox location, and on September 19th, 1984, a hearing
3 was scheduled before the Examiner of the NMOCD, and that
4 hearing was postponed and rescheduled and eventually did
5 happen later in 1985.

6 And Item 8 on the exhibit is that in pre-
7 paration for the hearing in June of 1985, a flow test was
8 performed May 28th to June 2nd, where the well was tested
9 into production equipment and the downhole pressure and
10 build-up test was measured over about a 70-hour period of
11 time.

12 The Examiner hearing then was held on
13 June 19th, 1985. Order R-8025 was entered on September
14 18th, 1985, and on October, 1985, the well began producing
15 and is producing now.

16 Q Have you run a 4-point test -- has Yates
17 run a 4-point test on the well?

18 A Yes, sir. Shortly after Order R-8025 was
19 entered in September, Yates filed a 4-point test on Form C-
20 122, showing a calculated absolute open flow of 927 MCF per
21 day.

22 Q Is the well on production now?

23 A Yes, sir.

24 Q What is it producing?

25 A It is currently producing about 200 MCF

1 per day.

2 Q Now it's producing out of -- gas out of
3 the P-1 zone. Did you test the P-2 zone?

4 A Yes, sir.

5 Q What were the results?

6 A A little water and a little oil; noncom-
7 mercial production from the P-2 zone.

8 Q Did it appear to have been drained?

9 A I don't know, sir.

10 Q Is that the oil zone, the P-2 zone?

11 A Yes, sir.

12 Q What zone is the Union 120 Well to the
13 north producing in?

14 A It's producing from what we call the P-2
15 zone. I think Union has a different name for it but it's --
16 it's the oil zone.

17 Q Okay.

18 A The Lower San Andres, Middle San Andres.

19 Q Do you know how much approximately the
20 cumulative production is from that well?

21 A I believe it's somewhere between 100 and
22 110,000 barrels of oil.

23 Q Now, on your Exhibit One you show a non-
24 producing well in the same 40-acre tract.

25 A Yes, sir.

1 Q Is that the Delaware Apache Koch Well?

2 A That's correct, yes, sir.

3 Q Could you tell us approximately when it
4 was drilled and what production it had?

5 A It produced 185 barrels of oil, that
6 number I remember exactly.

7 It was drilled in the early seventies, as
8 far as my memory serves me, but I really do not remember
9 that date exactly.

10 Q Was the oil production out of the P-2
11 zone?

12 A It was -- it was completed and tested and
13 produced from the P-2 zone, yes, sir.

14 Q Did the well test the P-1 zone?

15 A No, sir.

16 Q When Yates started to drill this Bluestem
17 Well, proposed as an oil well, what was the purpose of
18 locating it to the northwest of the Delaware Apache Well?

19 A The purpose was to move up dip away from
20 the noncommercial well towards commercial production.

21 MR. STAMETS: Mr. Losee, let's
22 go off the record.

23

24 (Thereupon a discussion was had off the record.)

25

1 MR. STAMETS: Back on the re-
2 cord, Sally.

3 Q Mr. Boneau, can you tell us about the
4 drainage area of the Bluestem Well?

5 A Yes, sir. That brings us to Exhibits
6 Three and Exhibit Four.

7 Exhibit Three is a plot of the daily pro-
8 duction from the Bluestem Well from October through late De-
9 cember. Current production is about 210, 200 MCF per day
10 and is declining at about 7 percent per month, is the way I
11 project it, as shown on that exhibit.

12 Exhibit Four is a production forecast of
13 the future for the Bluestem No. 1, based on this three
14 months of production. I estimate that the ultimate recovery
15 from the well will be 167-million cubic feet. In the upper
16 righthand corner is a volumetric calculation showing that
17 this gas, 167-million cubic feet, occupies about 50 acres of
18 reservoir and I therefore believe that the drainage area is
19 approximately 50 acres.

20 Q Do you think that the Bluestem Well
21 should be penalized because of its unorthodox location?

22 A The well was drilled in the wrong place
23 by Yates and the rules provide for a penalty to offset the
24 advantage that Yates obtained.

25 The Bluestem will drain a little more of

1 the offset leases than would be drained by a well at an or-
2 thodox location. I made a Figure Five and a Figure Six, I
3 guess you'd call it Exhibit Five and Exhibit Six, which
4 shows how I arrived at the 85 percent number quoted earlier.

5 Exhibit Five shows 160-acre circle around
6 the nearest orthodox location and it shows a 50-acre circle
7 around the actual location of the Bluestem "ZL" No. 1.

8 There are approximately 7 acres that will
9 be drained which lie outside the 160-acre circle surrounding
10 the orthodox location, so that approximately 7 of the 50
11 acres of drainage area will come from outside what would be
12 drained by a well at an orthodox location. 7 out of 50 is
13 about 15 percent penalty.

14 Exhibit Six puts these numbers down on
15 paper maybe in a more organized fashion. It also shows that
16 of the 50 acres drainage by the Bluestem Well, 55 percent of
17 it will come from lands which lie on the Bluestem Lease.

18 So 55 percent of the drainage is from the
19 lease; 85 percent of the drainage is from a circle the size
20 of the spacing unit surrounding an orthodox location.
21 That's where I get the 15 percent penalty and the 85 percent
22 allowable factor of deliverability.

23 Q Mr. Boneau, were Exhibits One through Six
24 prepared by you or under your direction?

25 A Yes, sir.

1 MR. LOSEE: Move the introduc-
2 tion of Exhibits One through Six.

3 MR. STAMETS: These exhibits
4 will be admitted.

5 Are there questions of Mr.
6 Boneau?

7 MR. CARR: Yes, Mr. Stamets.

8
9 CROSS EXAMINATION

10 BY MR. CARR:

11 Q Dr. Boneau, I believe you stated the well
12 at the present time, the Bluestem Well, was producing in the
13 neighborhood of 200 MCF gas per day.

14 A Yes, sir.

15 Q That producing rate is the rate the well
16 is authorized to produce with the existing penalty imposed
17 on it. Is that correct?

18 A I'm not sure I understand you exactly,
19 but that rate is, as I understand it, the allowable rate is
20 the 30-some percent of the calculated absolute open flow and
21 that number is about 300 to 320 MCF per day. It is cur-
22 rently producing around 200. It is producing less than that
23 number as I calculate that number.

24 Q Why is that? Why is that? Why is it
25 producing less than you're allowed to produce at this time?

1 A The well is not strong enough, capable of
2 producing more than what it is producing.

3 Q So 200 is what the well can produce.

4 A That's what I believe, yes, sir.

5 Q So -- and this is less than the present
6 penalty.

7 A That's correct.

8 Q So a penalty at the present rate isn't
9 affecting the well's producing rate, is it?

10 A That's correct.

11 Q Now, when you originally drilled this
12 well you were projecting it to be an oil well.

13 A Yes, sir.

14 Q It was not at a standard location for an
15 oil well, was it, Mr. -- Dr. Boneau?

16 A Not for the Bluit San Andres Associated
17 Pool, that's correct. Yes, sir.

18 Q Was that oil well location ever approved?

19 A Yes. Well, we filed a permit to drill on
20 May 1st, stating a 330 location and a 40-acre spacing unit,
21 and that permit to drill was approved.

22 Q And you testified that other gas wells in
23 the area are 660 feet out of the corner of their lease.

24 A Yes, sir.

25 Q 660 feet back from the acreage dedicated

1 to them.

2 A Yes, sir.

3 Q Those wells were, at least these -- let's
4 look at the two Tenneco wells in the northwest quarter of
5 Section 20, those two wells were originally drilled as oil
6 wells, were they not?

7 A Yes, sir.

8 Q And they were drilled at standard loca-
9 tions for oil wells.

10 A Yes, sir.

11 Q And that's why they're 660, they were
12 standard originally for an oil well.

13 A Uh-huh, yes.

14 Q And they've turned to gas. Now, --

15 A Or they were recompleted as gas wells.

16 Q Now, in locating the Bluestem Well you
17 were moving up structure from the old well on that spacing
18 unit, is that correct?

19 A That's correct. We got two feet up
20 structure.

21 Q Now, in moving up structure you were mov-
22 ing toward other wells producing in the area.

23 A That's correct, sir.

24 Q Are there any wells -- what other wells
25 are producing from a lower structural position than the

1 Yates well which is the subject of today's hearing?

2 A The only well I know of for sure is pro-
3 ducing from lower is the other Yates well in Section 21,
4 which is also a gas well produced and completed in this --
5 which is also a gas well completed in this Upper San Andres
6 P-1 zone.

7 Q And how does it compare structurally to
8 the Bluestem Well? How much lower is it than the Bluestem?

9 A I believe it's 10 to 20 feet lower.

10 Q Is there any production south, I'm not
11 talking about lower structurally, but I'm talking about
12 south, to the south of the Yates Bluestem Well?

13 A No, sir.

14 Q And so you're moving to the north; you're
15 moving toward production and away from acreage that does not
16 produce.

17 A We tried to move toward oil production.
18 We seem to have gotten into a kind of a separate little oil
19 reservoir -- gas reservoir, a separate little gas reservoir
20 that may continue south. It actually looks fairly good on
21 the log of the Delaware Apache Koch Well that is to the
22 south.

23 Q In making your study of this area were
24 you able to determine whether or not there is any communica-
25 tion or drainage taking place between the Yates Bluestem

1 Well and the Union well immediately north of there on the
2 offset 40?

3 A The Union well is completed in the lower
4 oil zone. Our well produces from the upper zone but is ac-
5 tually perforated in both zones and we have not set a packer
6 or anything to isolate those zones.

7 It does appear from looking at the pro-
8 duction from the Union well that gas production from the
9 Union well increased at the time our well was opened in that
10 gas zone, so it appears that some gas is going into the
11 wellbore from the P-1 zone in our well down to the P-2 per-
12 forations, and through that old oil zone over to the Union
13 well.

14 The production from that Union well is,
15 oh, 10 percent or so of the gas production from our well.

16 Q Is it fair to say that there is good com-
17 munication in the P-2 zone between the two wells?

18 A There definitely is communication, rela-
19 tively good, yes, sir.

20 Q And in the P-1 zone, how would you -- do
21 you have any evidence of communication between the two
22 wells?

23 A No, sir, the only thing, well, the only
24 thing I really know about the P-1 zone is from that pressure
25 build-up test and the permeability is -- calculates about

1 one millidarcy, which is not really indicative of what I
2 would call good communication or good permeability.

3 Q Now if I looked at your Exhibit Number
4 Five, you have a radius of drainage around the -- a well
5 spotted at the nearest orthodox location.

6 A Yes, sir.

7 Q And for the purpose of this exhibit you
8 have placed a 160-acre circle around that well.

9 A Yes, sir.

10 Q And what is the reason for a 160-acre
11 circle?

12 A The 160-acre circle has the area of the
13 Bluestem lease.

14 Q So the only reason for the 160-acre cir-
15 cle is that what you're dedicating to the well.

16 A Yes, sir.

17 Q Have you done anything to justify that
18 circle from a drainage point of view?

19 A The drainage is less than the 160-acre
20 circle. It is the 50-acre circle.

21 Q If you put a 50-acre circle around that
22 nearest location, the area that is shaded in blue on this
23 map would be substantially increased, would it not?

24 A A 50-acre circle around the little square
25 with the dot in the middle would lie entirely within the

1 Bluestem Lease and --

2 Q And all the acreage, then, outside the
3 Bluestem Lease, if we use the same color coding that you've
4 used here, would be shaded blue.

5 A Would be shaded blue; 45 percent of the
6 acreage would be shaded blue; of the acreage within the 50-
7 acre circle would be shaded blue; and 55 percent would be on
8 the Bluestem lease, and that was why there are two sets of
9 numbers on Figure 6.

10 Q So in essence, what we're doing is we are
11 using an arbitrary larger area of drainage where it tends to
12 reduce the penalty --

13 A Well --

14 Q -- and a smaller radius of drainage -- I
15 mean a larger one where it will, yeah, reduce the penalty
16 and a smaller one where it will --

17 A Well, I thought I was being -- I thought
18 I was actually being nice and if you talk about the drainage
19 area of an orthodox location and an orthodox spacing unit
20 you're talking about a 320-acre circle and I thought that
21 the 160-acre circle was a retreat to reality from that.

22 Q What do the pool rules provide for in
23 terms of spacing, acreage dedicated to a well?

24 A For a gas well, 320 acres.

25 Q You're not here today attempting to

1 change the spacing requirements.

2 A No, sir.

3 Q In your study of this area did you
4 encounter any evidence of any kind of permeability barrier
5 that would affect the drainage pattern of any of these
6 wells?

7 A I have no data that would indicate either
8 way on that question.

9 Q Now you are 330 feet from the lease line.

10 A Yes, sir.

11 Q Both to the north and to the west.

12 A Yes, sir.

13 Q That is 66 percent closer lthan is per-
14 mitted by the existing rule.

15 A Yes, sir.

16 MR. CARR: I have no further
17 questions.

18

19

CROSS EXAMINATION

20 BY MR. STAMETS:

21 Q Mr. Boneau, if -- if the penalty that's
22 assigned now is -- allows for greater rates of production
23 than the well is capable of, why are you here today?

24 A We think that the formula that led to Or-
25 der R-8025 is basically wrong and arbitrary, unfair, capri-

1 cious, all those words, and we didn't want to give the im-
2 pression we were accepting it by not showing up; that we
3 were endorsing it by not showing up.

4 We think the formula just needs to be
5 challenged and our purpose is to examine that formula.

6 Q It's for the good of the industry and
7 (not clearly understood).

8 A I've sure got a lot of other things to do
9 than be here, yes, sir.

10 MR. STAMETS: Any other ques-
11 tions of this witness?

12 He may be excused.

13 MR. LOSEE: I reserve, Mr. Com-
14 missioner, the right to recall him.

15 MR. STAMETS: Mr. Losee, have
16 you introduced Exhibits One through Six? Did you admit
17 those for the record?

18 MR. LOSEE: I believe so, yes.

19 MR. CARR: At this time I'd
20 call Mr. McKeel.

21
22 BURL KEITH MCKEEL,
23 being called as a witness and being duly sworn upon his
24 oath, testified as follows, to-wit:
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DIRECT EXAMINATION

BY MR. CARR:

Q Would you state your full name and place of residence?

A Burl Keith McKeel, Midland, Texas.

Q Mr. McKeel, by whom are you employed?

A Union Oil Company of California?

Q In what capacity?

A I'm an Area Geologist.

Q Would you review your educational background and briefly summarize your work experience for the Commission?

A I received a BS in geology in 1966 from Oklahoma State University.

The last nineteen years I worked as a geologist for Lone Star Producing, the U. S. Atomic Energy Commission, and the past nine years for Union Oil Company of California. The last four and a half have been in West Texas and southeastern New Mexico.

Q Does your area of responsibility include the acreage which is involved in today's hearing?

A Yes, it does.

Q Are you familiar with the application

1 filed in this case on behalf of Yates Petroleum?

2 A Yes, I am.

3 MR. CARR: We tender Mr. McKeel
4 as an expert witness in petroleum geology.

5 MR. STAMETS: The witness is
6 considered qualified.

7 Q Mr. McKeel, would you briefly state what
8 Union is seeking appearing in this case today?

9 A We are seeking the imposition of a penal-
10 ty on the Yates Bluestem "XL" No. 1 Well to protect our cor-
11 relative rights.

12 Q Have you prepared certain exhibits for
13 introduction in this case?

14 A Yes, I have.

15 Q Would you please refer to what has been
16 marked for identification as Union of California Exhibit
17 Number One, identify it, and review it, please?

18 A Exhibit Number One is a structure map
19 contoured on top of the Todd (sic) pay zone. The Todd has
20 been referred to as the P-2 zone.

21 Q On the structure map have you indicated
22 the producing interval with the depth of the each of the
23 wells producing in this area?

24 A Yes, I have. The numbers by each well
25 are the subsea depth on top of the Todd pay, or the P-2.

1 You'll notice on the structure map that
2 north of the subject well dips are low and as we get to the
3 subject well, south thereof that the dips increase substan-
4 tially.

5 Q Now I asked Dr. Boneau about wells pro-
6 ducing in this area structurally below the Yates Bluestem.
7 He indicated one Yates well.

8 A Are you aware of any other wells that are
9 located structurally lower than the Yates well producing in
10 this area?

11 A The only two wells that are lower struc-
12 turally are the Federal Koch No. 2 just south of the subject
13 well, which is a sub-economic well. The other one is the
14 one the Doctor referred to in Section 21, the 1-ZR, and it
15 also is producing much less than the 1-ZL has.

16 Q What is the primary producing horizon in
17 this area?

18 A It's the San Andres formation, which
19 makes up the P-1 and the P-2 formations, or P-2 zones, the
20 P-2 zone being the oil producing horizon.

21 Q Does Union basically concur with the P-1
22 and P-2 designations used in this case by Yates?

23 A Yes, we do.

24 Q Would you now refer to what has been mar-
25 ked as Union of California Exhibit Number Two, your

1 north/south cross section, and review this for the Commis-
2 sion, please?

3 A Exhibit Number Two is a structural cross
4 section from south to north. On the south end we have the
5 Koch Federal No. 2 Well, going through the subject well, the
6 Bluestem "ZL" to Union's 20 No. 1 Well, and northward to the
7 17-A Well.

8 Q Mr. McKeel, is there a trace for this
9 cross section on Exhibit Number One?

10 A Yes, the red line on this is the con-
11 toured horizon on the structure map.

12 Q What does Exhibit Number Two show?

13 A We can see from the cross section that
14 the porosity shown in red is very continuous throughout the
15 area. We also can note that south of the Bluestem "ZL" that
16 the dip increases substantially.

17 Q Mr. McKeel, in your opinion how important
18 is structure in determining whether or not you make a suc-
19 cessful well in this area?

20 A This pool is considered to be both a
21 structural and stratigraphic field.

22 To the north production is limited due to
23 porosity and permeability pinchout, while to the south pro-
24 duction is limited by its structural position.

25 Q What general conclusions can you draw

1 about this area from your study?

2 A Our conclusions from this study are that
3 the porosity in the P-1 and P-2 zones are very continuous
4 and that due to the poor structural position wells south of
5 the subject well will generally be sub-economic and that
6 drainage, therefore, will be generally from the north.

7 Q Does Union plan to call an engineering
8 witness to provide additional testimony?

9 A Yes, we do.

10 Q Were Exhibits One and Two prepared by
11 you?

12 A Yes, sir.

13 MR. CARR: At this time, Mr.
14 Stamets, we would offer into evidence Union Exhibits Numbers
15 One and Two.

16 MR. STAMETS: These exhibits
17 will be admitted.

18 Are there any questions of this
19 witness?

20

21

CROSS EXAMINATION

22 BY MR. LOSEE:

23 Q Mr. McKeel, in comparing the log in the
24 Bluestem and the Delaware Apache Koch Federal No. 2 Well,
25 shown on your Exhibit Two, isn't it true that the log looks

1 a little better on the Delaware Apache Koch in the P-1 zone?

2 A There appears to be a little more poros-
3 ity, yes, sir.

4 Q And would that not indicate that at least
5 in the P-1 zone, where there's only 2-foot -- 2 feet differ-
6 ence in the structure, that there's (not understood) amount
7 of gas appearing south of the well?

8 A I have indicated on my cross section that
9 there is 10 foot difference, sir.

10 Q A comparison of the two logs would indi-
11 cate that you do not have gas produced down in that area al-
12 so?

13 A I don't believe that's necessarily true,
14 sir. That could be watering out down at that end. This is
15 what -- what we've seen in the P-2 zone is -- is -- follows
16 this pattern, is that even though we do increase porosity
17 down dip, that that does not necessarily mean you're going
18 to have a better producing well.

19 Q The Yates "ZR" Well is actually six feet
20 lower, is it not, than the Delaware as shown on your Exhibit
21 One?

22 A No, sir, it is about 17 feet lower.

23 Q No, I'm talking about the Delaware
24 Apache, comparing it with the Yates --

25 A Oh, Delaware Apache, yes, --

1 Q -- which is south --

2 A That's true, yes.

3 Q And it's producing gas, is it not, the
4 Yates "ZR"?

5 A Yes, it is.

6 MR. LOSEE: I think that's all.

7 MR. STAMETS: Are there other
8 questions of this witness?

9 He may be excused.

10 MR. CARR: At this time I would
11 call Ted Duff.

12

13

TED EDWARD DUFF,

14 being called as a witness and being duly sworn upon his
15 oath, testified as follows, to-wit:

16

17

DIRECT EXAMINATION

18 BY MR. CARR:

19

20 Q Would you state your full name and place
of residence?

21

A Ted Edward Duff, Midland, Texas.

22

23 Q And by whom are you employed and in what
capacity?

24

A Union Oil of California.

25

Q And in what capacity are you employed?

1 A Petroleum engineer.

2 Q Would you briefly review your educational
3 background and your work experience for the Commission?

4 A I received a BS degree in petroleum engi-
5 neering from New Mexico Institute of Mining and Technology
6 in May, 1982, and have since been employed by Union Oil.

7 Q Are you familiar with the application
8 filed in this case?

9 A Yes, I am.

10 Q Does your area of responsibility for
11 Union include this portion of southeastern New Mexico.

12 A Yes, it is.

13 Q Are you familiar with the subject area?

14 A Yes, I am.

15 MR. CARR: We tender Mr. Duff
16 as an expert witness in petroleum engineering.

17 Q Mr. Duff, are there special pool rules in
18 effect for the Bluit-San Andres Pool?

19 A Yes. In addition to statewide rules we
20 have associated pool rules and in addition to that we have
21 special pool rules for the Bluit-San Andres.

22 Q What are the requirements for this pool
23 as set forth in those rules?

24 A Gas well spacing requirements provide for
25 a well to be drilled no closer than 990 feet from the quar-

1 ter section line and no closer than 330 feet from the quar-
2 ter quarter section line.

3 Q What are the gas well spacing require-
4 ments set forth in that rule; i.e. the spacing dedication?

5 A A standard gas proration unit is 320 ac-
6 res.

7 Q How many acres are there in the proposed
8 unit, the unit Yates has proposed?

9 A 160 acres.

10 Q Half that required for a standard unit
11 under the rules.

12 A Yes, sir.

13 Q If this well was drilled on a standard
14 quarter section, how far back from the outside lease or unit
15 boundary would a well have to be located to be at a standard
16 location?

17 A It would be 990 feet from the lease
18 lines.

19 Q Now this is not a standard unit, but how
20 far back from the unit boundary line do you believe the well
21 would have to be located if, in fact, it was to comply with
22 the rules?

23 A I believe an orthodox location would be
24 990 feet from the lease lines and that would prevent -- pro-
25 tect offset operators.

1 Q Would you refer now to what has been mar-
2 ked for identification as Yates -- I'm sorry, as Union of
3 California Exhibit Number Three --

4 A Yes, this is --

5 Q -- identify it and review it, please?

6 A Yes, this is a curiosity plat of the
7 area. I've shown the subject well, the Yates No. 1 "ZL",
8 shown by the red arrow. Union's acreage is outlined in yel-
9 low and on this I have a date of first production, cumula-
10 tive oil production to 9-1-85, and current production in Au-
11 gust '85.

12 Q Would you now go to what has been marked
13 as Union Exhibit Number Four and review this?

14 A Exhibit Number Four is a close-up of the
15 areaa. Again the Yates No. 1 "ZL" is shown by a red arrow;
16 Union's acreage shown outlined in yellow, and this plat
17 shows the distances from the lease line of the Yates "ZL",
18 330 from the west and additionally it shows an orthodox lo-
19 cation being 990 and 990 from the north and west and the
20 difference between the two wells, 933.4 feet.

21 Q And, Mr. Duff, the Yates well is a gas
22 well?

23 A Yes, it is.

24 Q Do you believe that production from this
25 well should be restricted by a penalty placed on its produc-

1 tion due to its unorthodox location?

2 A Yes, because it will drain reserves from
3 Union's acreage and that could not be offset by counter
4 drainage.

5 Q Can you recommend to the Commission how a
6 production limitation factor should be calculated or ob-
7 tained?

8 A Yes. We'd recommend that it be calcu-
9 lated by a method that has been approved by the Commission
10 previously.

11 Q Mr. Duff, would you now refer to Exhibits
12 Number Five and Number Six, and review for the Commission
13 how you recommend a penalty be calculated?

14 A Okay. Exhibit Number Five is a produc-
15 tion limitation factor calculation sheet and summarizes the
16 calculations involved.

17 The production limitation factor is made
18 up of three different parts, one being a north/south fac-
19 tor, east/west factor, and the third being a net acre fac-
20 tor.

21 The north/south factor and the east/west
22 factor are encroachment upon the lease lines and are calcu-
23 lated from the distances of the well to a standard location.

24 Both these calculate out as 33.33 per-
25 cent, or in other words, the well is 66.667 percent too

1 close to the lease lines.

2 The net acre factor is a drainage
3 encroachment calculation. I've shown it graphically on Ex-
4 hibit Number Six.

5 We take a standard proration unit of 320
6 acres, assume radial drainage, and we'll draw two circles,
7 one at a standard location and one at the location, and I've
8 shaded in Exhibit Six an area which is blue and that shows
9 the advantage gained by the unorthodox location.

10 The calculation of this area of advantage
11 gained is 88.03 acres and that represents 27.51 percent of a
12 standard unit. That would be the encroachment so the net
13 acre factor would calculate at 72.49 percent.

14 Now, for the total production limitation
15 factor you'd take these three parts, take the arithmetic sum
16 of them, which for a 320-acre proration unit would be 46
17 percent, and for 160 acres would be half of that, or 23.19
18 percent.

19 In summary, the well would be allowed to
20 produce 23.19 percent of its deliverability and meaning the
21 well is penalized 76.81 percent.

22 Q Now, Mr. Duff, are you familiar with the
23 production limitation factor that was imposed by Order R-
24 8025?

25 A Yes, I am.

1 Q Was that penalty correctly computed in
2 that order?

3 A No, I don't believe it was. I believe it
4 had an arithmetic error in it and should have been 23.19
5 percent.

6 Q And what you're recommending here today
7 is the same penalty that you recommended at the time of the
8 Examiner Hearing in this case.

9 A Yes, it is.

10 Q What is your recommendation, then, as to
11 what the well should be allowed to produce?

12 A Well, I believe it should be allowed to
13 produce only 23.19 percent of what it's capable of producing
14 into a pipeline.

15 Q Do you -- would you -- do you believe the
16 use of this formula to be unfair to Yates?

17 A No, I don't, because the method of calcu-
18 lation assumed 320-acre drainage radius. That included
19 quite a bit of area to the south, which is most likely un-
20 productive. I believe most of the drainage will come from
21 the north.

22 Q Is this a prorated pool?

23 A No, it is not.

24 Q And, again, I want to be clear, and ask
25 you again to state what you recommend this penalty be ap-

1 plied against.

2 A Well, again I believe it should be
3 assigned against the well's ability to produce into a pipe-
4 line.

5 Q Now what effect would imposing this pen-
6 alty have on the correlative rights of Union?

7 A It would protect Union's rights by pro-
8 tecting our acreage from offset drainage which would other-
9 wise be offset by counter drainage.

10 Q Do you believe that granting the applica-
11 tion with the penalty that you have recommended, as you read
12 that, would prevent waste and protect correlative rights of
13 all interest owners in the area?

14 A Yes.

15 Q Were Exhibits Three through Six prepared
16 by you?

17 A Yes, they were.

18 MR. CARR: At this time, Mr.
19 Stamets, we would offer Union Exhibits Three through Six in-
20 to evidence.

21 MR. STAMENTS: Without objec-
22 tion these exhibits will be admitted.

23 MR. CARR: Thank you. That
24 concludes my direct of Mr. Duff.

25 MR. STAMETS: Are there any

1 questions of the witness?
2

3 CROSS EXAMINATION

4 BY MR. LOSEE:

5 Q Mr. Duff, do you have any reasons to
6 doubt Yates' good faith effort in attempting to drill its
7 Bluestem Well as an oil well at this location?

8 A It was not orthodox as an oil well at its
9 location.

10 Q That doesn't answer my question. Do you
11 have any reason to doubt Yates' good faith?

12 A No, I do not.

13 Q And that rather than completing it as an
14 oil well, it was completed as a gas well.

15 A Yes, it was.

16 Q Are you acquainted with Mr. L. F. Thomp-
17 son?

18 A Yes, I am.

19 Q Is he an employee of Union?

20 A Yes, he is. He's our District Operations
21 Manager in Midland, Texas.

22 Q Are you aware of the fact that Yates has
23 made an application for a nonstandard unit and unorthodox
24 location for the (not understood) well that Mr. McKeel dis-
25 cussed?

1 A Yes, I am, and I have reviewed it.

2 Q Mr. Duff, I'll hand you a letter dated
3 December 20, which I do not propose to introduce in evidence
4 because it's already addressed to Mr. Stamets, and ask if
5 that is Yates' -- not Yates', Union's response to the Yates
6 application on the (not understood) well?

7 A Yes, it is, and I authored the letter.

8 Q Okay. Would you read the highlighted
9 language into the record, please?

10 A Okay. Since it is not always possible to
11 predict the producing GOR for a proposed well, Union feels
12 that if an operator in the Bluit-San Andres Pool has in
13 good faith drilled legally for one type of hydrocarbon, oil
14 or gas, and subsequently has to be approved to produce the
15 other type, no objection should be raised.

16 Q Is the Union 120 Well which is in a por-
17 tion north of the Bluestem, open in the P-1 gas zone?

18 A No, sir.

19 Q When you drilled the well did you test
20 the P-1 gas zone?

21 A No, we did not.

22 Q Do you have any present plans, does Union
23 have any present plans to open that gas zone?

24 A We are currently evaluating opening up P-
25 1 zones in wells in the area and additionally we're evalu-

1 ating secondary recovery as well as infill drilling.

2 Q Secondary recovery of the oil zone.

3 A Yes, sir, P-2.

4 Q How long have you been evaluating this
5 program?

6 A A little over a year I've worked on it.
7 It's been evaluated in the past.

8 Q Is Union any closer at this time to mak-
9 ing -- to determining whether to open the P-1 zone than it
10 was a year ago?

11 A No, we are not. We were awaiting the
12 outcome of this case is one of the reasons.

13 Q If Union were to attempt to open that P-1
14 zone, what acreage would you dedicate to the -- could you
15 dedicate to the well?

16 A We could dedicate 80 acres, which is the
17 proration unit existing under the oil at this time.

18 Q What 80 acres is that?

19 A It will be Section 20, Unit B, and then
20 40 acres immediately north of that.

21 Q Do you have a -- has the Commission ap-
22 proved the nonstandard unit for that well, Union well?

23 A Yes, it has.

24 Q Do you know what order number it was?

25 A I don't have that up here with me but I

1 could get it.

2 Q I see to the east, the northeast quarter
3 northeast quarter of Section 20, your Exhibit Six shows that
4 to be a Yates lease.

5 A Yes, sir, that's correct.

6 Q That's the adjoining 40-acre tract.

7 A Yes, sir, that was obtained a couple
8 months ago, I believe.

9 Q At a competitive bid at a Federal compe-
10 titive sale?

11 A Yes, sir.

12 Q Did Union bid on that tract?

13 A No, we missed that altogether. We would
14 have liked to.

15 Q You don't bid on Federal competitive
16 bids?

17 A We do, but they need to catch it in the
18 office to know about it and they missed this one.

19 Q Now I notice the two Tenneco wells to the
20 west, Tenneco 1 and Tenneco 2. Testimony indicates they're
21 both producing gas. Do you know whether Tenneco received
22 approval of this Commission to simultaneously dedicate those
23 two wells?

24 A Yes, I understand they did.

25 Q At the same time did they get approval to

1 produce them as gas wells at 660 locations?

2 A Yes.

3 Q Did Union object to -- about that appli-
4 cation?

5 A No, we did not, and again we did not
6 catch it, catch the notice of the hearing.

7 Q That was an administrative approval, was
8 it not, and not a hearing?

9 A I think it was.

10 Q And isn't the operator seeking adminis-
11 trative approval of a nonstandard unit at an unorthodox lo-
12 cation required to give notice to offset operators?

13 A Yeah, I think they are.

14 Q Do you know whether or not Union received
15 the notice?

16 A I never did in my office but that doesn't
17 mean that we did not receive it, though --

18 Q But you --

19 A -- but I was unaware of it.

20 Q You did not object to it.

21 A Not, being unaware of it, I did not ob-
22 ject.

23 Q When did Union become aware that these
24 two wells had been opened in the P-1 zone?

25 A It was about two months after they recom-

1 pleted them, I believe. I was talking to Tenneco on the
2 phone and they told me they had recompleted them as gas in
3 the P-1 zone.

4 Q Did you raise any -- did Union raise any
5 objection at that time?

6 A No, it had already been approved.

7 Q Of course, if Union had not received
8 notice they would have been in a position to raise objec-
9 tion, would they not?

10 A Yes, I suppose so.

11 Q Do you think the P-1 zone in the Yates
12 Bluestem Well will drain 320 acres?

13 A Most likely not.

14 Q Well, it really won't, will it?

15 A Most likely it won't.

16 Q Mr. Duff, I asked you the same question
17 at the Examiner Hearing in June and your response -- I said
18 to you that -- do you think that P-1 zone is going to drain
19 320 acres in this area?

20 And your answer was, no, I don't.

21 Have you changed that -- your mind on
22 that, or is the answer still no?

23 A Are -- those are both negative answers.

24 Q Well, one is -- has a little question
25 mark after it.

1 A No, I do not believe it will drain 320
2 acres.

3 Q All right. If you admit that the
4 Bluestem Well will not drain 320 acres, why does Union use
5 320 acres to calculate its net acre factor in the formula
6 it proposes?

7 A That's based on a standard unit spacing
8 requirements from the Commission which determine that a gas
9 well in the Bluit-San Andres should drain 320 acres.

10 Q But -- and that's solely based on what
11 the standard spacing unit is and has no relation to the
12 actual drainage area of the well.

13 A Right. I do not believe that any of us
14 here have enough information to say how much that will drain
15 at this time.

16 Q But you say it will not drain 320.

17 A I do not believe it will.

18 Q Under your formula, if the well was
19 capable of draining 640 acres, would you still use 320 acres
20 as the net acre factor?

21 A Will you repeat the question, please?

22 Q If a well, the offending well, actually
23 was capable of draining 640 acres, would your formula still
24 use -- where the spacing was 320 acres -- would it still use
25 320 acres?

1 A I would still use 320 acres.

2 Q Now if the offending well only drained 40
3 acres, I suppose you would also still use 320 in your for-
4 mula.

5 A Yes, I would, because it has been an ac-
6 cepted method before the Commission.

7 Q Even though it may have no -- the formula
8 may have no relation to the actual drainage area of the
9 well.

10 A It has some relation to it. These for-
11 mulas are -- they're rough formulas but they're the best
12 that we have to go on at the time.

13 Q Well, --

14 A For example, we're assuming radial drain-
15 age here, also, which might not be the case, but you have to
16 make some assumptions to come up with the calculations.

17 Q I realize, Mr. Duff, that your testimony
18 has been that if the well would drain only 40 acres, 640 ac-
19 res, it makes no difference, you would still use 320 acres
20 in your formula.

21 A Yes, that's correct.

22 Q So that Union is suggesting to this Com-
23 mission that the advantage obtained by the Yates offending
24 well at an unorthodox location is the same whether or not
25 that well drained 40 or 640 acres.

1 A If the Commission has given 320 spacing,
2 yes.

3 Q So that the actual drainage area under
4 your interpretation of the formula, actual drainage area of
5 the well, has nothing whatsoever to do with the advantage
6 obtained by the offending well.

7 A No, that's incorrect.

8 Q Explain it.

9 A The Commission has provided spacing rules
10 based on what a gas well should drain, and in this case it's
11 320 acres and we do not know if it's 40 acres or more or
12 160, so we go by the spacing rules, which is the best thing
13 we have to go on at this time.

14 Q Okay, Mr. Duff, isn't it true that the
15 Commission, for instance, has spacing rules of 320 acres in
16 this San Andres; statewide rules in southeastern New Mexico
17 are 320 acres from Wolfcamp down; they're 160 above it; but
18 isn't it also true that in each of those cases the Commis-
19 sion makes exceptions where evidence is introduced to show
20 the drainage area is greater or less than that provided by
21 the state rules?

22 A Yes.

23 Q And isn't the evidence, the only evidence
24 here, that that well will drain 50 acres, the Bluestem Well?

25 A No, I don't agree with the 50 acres. If

1 we are seeing communication between the wells, it's at least
2 that far.

3 Q Well, now, your communication between the
4 wells is not in the gas zone, is it?

5 A No, it's not.

6 Q And isn't it true that communication is
7 coming from a substantially depleted well?

8 A Yes, it is.

9 Q And that's where the communication is,
10 it's not from gas.

11 A Yes.

12 Q Isn't it true, Mr. Duff, that the Yates
13 Bluestem Well by reason of its unorthodox location hasn't
14 really obtained a 77 percent advantage over the offsetting
15 Union acreage?

16 A I believe it has.

17 Q Your formula calculates a total produc-
18 tion limitation factor of 46 percent. Is that correct?

19 A For a 320-acre proration unit, yes, sir.

20 Q And then you reduce it one-half by reason
21 fo the fact that the proration unit is only 160 acres.

22 A Yes, sir.

23 Q Are you suggesting that because Yates has
24 proposed a nonstandard 160-acre unit rather than the 320-
25 acre unit, that gives Yates that great -- 50 percent greater

1 advantage over these offsetting operators?

2 A No, I think both the production limita-
3 tion factor and the acreage reduction should be considered
4 separately, and the production limitation factor based on a
5 standard proration unit, because regardless of how much ac-
6 reage you dedicate to a well, you still should go by the
7 standard area of drainage.

8 Q So that you are saying that your 46.4
9 penalty is the advantage obtained, is that correct, over the
10 Union well?

11 A If you were producing from 320 acres de-
12 dicated to the well, yes.

13 Q Well, let's back up. Maybe I didn't get
14 my question right.

15 The rules of the Commission, 104-F pro-
16 vide that when the Commission makes an exception to the well
17 location rules it will take such action as is necessary to
18 offset the advantage obtained by the offending well, and my
19 question here is what advantage does Union believe the Yates
20 well has over the offsetting -- I mean the Yates well has
21 over the offsetting acreage? Is it 46 or 23 percent?

22 A It's 23.19 percent if you dedicate 160
23 acres.

24 As you can see on Exhibit Six, the circle
25 goes outside that 160 acres, even on a standard, orthodox

1 location.

2 MR. STAMETS: If I could inter-
3 ject here, I think there's confusion on this point, Mr.
4 Losee, and let me see if I can clarify it.

5 MR. LOSEE: Okay.

6 MR. STAMETS: Mr. Duff, I be-
7 lieve that it would be your intent that the Yates well pro-
8 duce more than -- no more than 23.19 percent of the regular
9 allowable for a well in a similar situation in order to off-
10 set the advantage gained by its location, is that correct?

11 A Yes, sir.

12 MR. STAMETS: So the penalty,
13 then, would be the difference between 23.19 and 100.

14 A Or 76.81.

15 MR. STAMETS: Yeah.

16 Q Well, now, I guess I understood Mr. Sta-
17 mets' quesiton but I -- and I understood Mr. Duff's answer,
18 but I have difficulty with the 23 percent. It seems to me
19 that the formula you have calculated reflects an advantage
20 obtained by the Yates well regardless of what acreage is de-
21 dicated to it, or 46 percent.

22 A No, I believe it's --

23 Q Based on the drainage area.

24 A I believe it starts out, if you dedicated
25 160 acres to a well that had a 320-acre standard proration

1 unit, you should start out at a 50 percent reduction to be-
2 gin with, and then apply a limitation on that.

3 Q Do you think the 50 percent reduction is
4 -- should be granted because of the advantage obtained by
5 the offsetting well?

6 A That's because of the acreage that is de-
7 dicated --

8 Q But that's not being --

9 A -- not -- not because of the advantage,
10 no.

11 Q That's really because of the Commission
12 rules that provide if you have a nonstandard unit in an al-
13 located gas pool, the allowable is reduced in relation to
14 the acreage in the spacing unit, in a normal spacing unit.

15 A Yes.

16 Q And it's not because of the unorthodox
17 location rules in speaking of advantage obtained over off-
18 setting acreage.

19 A Right.

20 Q So that really the advantage you say that
21 Yates secures in this case is 46 percent, is it not?

22 A On the unorthodox location part of you-
23 all's request.

24 Q Thank you. So that when you said that
25 Yates has obtained an advantage of 77 percent over offset-

1 ting operators, you really meant that Yates has obtained an
2 advantage of 54 percent over offsetting operators, did you
3 not?

4 A No. I believe that Yates has gained an
5 advantage by the unorthodox location for 46.38, and in addi-
6 tion, they have gained an advantage of 50 percent by dedi-
7 cating half the acreage.

8 Q Let's go off the subject; I think we've
9 hassled that enough, Mr. Duff.

10 After completion of the Bluestem Well
11 did Yates offer you -- Union the opportunity to participate
12 in the Bluestem Well?

13 A Yes, after it was completed.

14 Q By paying Union's actual share of the
15 cost of completing, drilling and completing the well, it's
16 proportionate share?

17 A I don't understand the question.

18 Q Well, Union had a 40-acre tract and if
19 Yates were going to dedicate 160, that would mean that the
20 spacing unit would be 200 acres, and the offer was made, I
21 think, to participate with Union paying 40/200ths of the
22 cost of drilling the well.

23 A No, that was declined by Union for the
24 fact that we could not dedicate that acreage simultaneously
25 for oil and gas wells.

1 Q But you offered, did you not, Union did,
2 to withhold your objection to this application in return for
3 a 1/8th net overriding royalty on the Bluestem Well, did
4 Union not?

5 MR. CARR: Mr. Stamets, I'm
6 going to object to this line of questioning. We're happy to
7 stipulate and state to the Commission that we tried to re-
8 solve this without coming to you. These are some of the ne-
9 gotiations we attempted and I don't believe they're relevant
10 to the question of what kind of a penalty should be placed
11 on the well because of the unorthodox location.

12 We didn't reach an agreement.

13 MR. STAMETS: Mr. Losee, do you
14 desire to proceed?

15 MR. LOSEE: No, I've asked all
16 the questions I care to of this witness.

17 MR. CARR: Nothing further.

18 MR. LOSEE: I think that's all.

19
20 CROSS EXAMINATION

21 BY MR. STAMETS:

22 Q Mr. Duff, assuming that there was an
23 arithmetic error there in the original order, and the allow-
24 able factor then would be 23.19 percent, -- let me start
25 from a different point on that same issue -- in answer to

1 one of Mr. Carr's questions you indicated this was not a
2 prorated pool but if memory serves, all the associated oil
3 and gas pools in the state are prorated and the gas allow-
4 able for a gas well is based upon the allowable limit, GOR
5 allowable limit for the oil-spaced unit.

6 In other words, with 320 acres dedicated,
7 a gas well can produce 8 times the amount of gas that an oil
8 well can produce.

9 Is that correct?

10 A I believe it is, yes, sir.

11 Q And that the present allowable of 80 bar-
12 rels a day and a 2000-to-1 gas/oil ratio, that would be
13 160,000 a day for each 40-acre tract, is that correct?

14 A That would be only for 40 acre?

15 Q Yes.

16 A I believe so.

17 Q So based upon your penalty formula Yates
18 would wind up with acreage factor of 74.2 acres in this
19 unit; multiply 23.19 percent times 320 acres, I think that
20 come out to 74.2 acres.

21 A Okay.

22 Q If you utilize that times the GOR limit
23 it seems as though you come up with a limitation of 296.8
24 MCF a day.

25 A I don't think a limitation of 298 would

1 protect Union's correlative rights here. There should be a
2 better way of applying a penalty to a well if the Commission
3 decides that a penalty should be imposed.

4 Mr. Stamets, I'd recommend the penalty be
5 assessed against the well's ability to produce into a pipe-
6 line, which could be determined by semi-annual deliver-
7 ability tests and would be the actual rate the well is cap-
8 able of producing.

9 Q In pools where -- where there is an al-
10 lowable formula, to my knowledge, we've never done that,
11 (not clearly audible) in the past, but all penalties have
12 been applied against acreage -- if we assume that Mr. Boneau
13 was correct in saying the well is draining 50 acres, that
14 would be one and a quarter times 40 and that comes out to
15 about 200 MCF a day, and then again if we look at his exhi-
16 bit which shows the amount of acreage being drained off
17 their proration unit, on 50 at the unorthodox location ver-
18 sus the standard location, it does seem as though there
19 would be some penalty applied to even 50 acres.

20 If they're draining only 50 acres, is
21 that having any significant impact upon Union?

22 A It has some impact on it, but I think
23 it's a little too early to say 50 acres at this time. That
24 was done by a decline curve analysis and it's pretty early
25 in the well's life.

1 Q Has anybody with Union examined the logs
2 or the drilling records, to determine if there is gas in the
3 P-1 zone under Union's lease?

4 A I've looked at the logs. The well was
5 drilled in 1971 and they're older logs.

6 It does have developed porosity, which is
7 continuous throughout the field, and I would believe, yes,
8 there's gas there.

9 Q At the present time Union's not completed
10 in that zone.

11 A No, sir, we're not.

12 Q So we cannot be absolutely certain that
13 there's any gas there for Yates to be draining.

14 A Most likely there is, being up structure,
15 with porosity.

16 MR. STAMETS: Any other ques-
17 tions of this witness?

18 MR. LOSEE: Yes, the Examiner's
19 question raised one.

20

21

RECROSS EXAMINATION

22

BY MR. LOSEE:

23

24

25

 Q Mr. Duff, do you know the production of
the offsetting Tenneco Well No. 1, I think is the direct
offset to Union?

1 A Yes. I show in August of '85 Tenneco
2 produces 60 MCF gas per day in the No. 1, and 51 MCF gas per
3 day in the No. 2. and these are from the P-1 zone.

4 Q Do you have any other productions on it?
5 Are they all generally 50 and 60 MCF?

6 A Those are the only two gas wells that I
7 have.

8 Q Well, that's for one -- is that for one
9 month? Do you have any other months or --

10 A Just one month. I think they're
11 averaging about 60.

12 Q Okay, I think that's all.

13 MR. STAMETS: Any other ques-
14 tions of the witness?

15 He may be excused.

16
17 (Therepon a recess was taken.)

18
19 MR. LOSEE: I wish to have Mr.
20 Boneau testify shortly on redirect.

21 MR. STAMETS: All right.

22
23 DAVID BONEAU,
24 being recalled and being previously sworn upon his oath,
25 testified as follows, to-wit:

REDIRECT EXAMINATION

1
2
3 BY MR. LOSEE:

4 Q Would you please refer to what has been
5 marked as Exhibit Nine, which compares the results of the
6 Union formula and explain that exhibit and these
7 accompanying Exhibits Ten through Twelve?

8 A Yes, sir. We made the point that the
9 formula proposed by Union gives the same allowable factor
10 regardless of the actual drainage area of the unorthodox
11 well and that is the main thing that Yates objects to. That
12 is one of the things that Yates objects to in the logic be-
13 hind that formula.

14 Exhibit Nine is a compilation of what area actual-
15 ly lies on the Bluestem lease and what area would lie within
16 160-acre circle for various drainage areas.

17 Union and Yates are not able to agree
18 exactly on what the drainage area is and so I prepared an
19 exhibit that covers, I think, the reasonable range of drain-
20 age areas that the two companies would believe.

21 So the facts involved here, we have a
22 standard spacing unit, which is 320 acres. Our application
23 is nonstandard spacing unit, 160 acres. The actual unortho-
24 dox location of the well is 330 feet in the east/west direc-
25 tion and 330 feet in the north/south direction from the

1 lease line and the orthodox location would be 990 feet from
2 those two lease lines.

3 The first column in Exhibit Nine lists
4 drainage areas from 40 to 640 acres and that's the range
5 that we're going to discuss here.

6 The Commission formula proposed by Union
7 gives the same allowable factor regardless of that drainage
8 area.

9 The fraction of the drainage area which
10 is on the Bluestem lease listed in the third column of this
11 exhibit, and the pictured in Exhibits Ten, Eleven, and
12 Twelve, show these drainage areas and allow you to see that
13 these numbers are reasonable.

14 Okay, in the 40-acre case, 58 percent of
15 the drainage area lies in the Bluestem lease and it's not
16 down -- not until you get to a 640 drainage area that the
17 fraction of the drainage area on the Bluestem lease falls as
18 low as 24 percent.

19 The fourth column of Exhibit Nine shows
20 the fraction of the drainage area which is either on the
21 lease or within 160-acre circle around the nearest orthodox
22 location.

23 These fractions range from 90 percent for
24 a 40-acre drainage area down to 29 percent for a 640-acre
25 drainage area.

1 The 50-acre drainage area that we believe
2 is correct falls in between 40 and 80 and gives the 85 per-
3 cent number that was quoted earlier.

4 Our thoughts behind these numbers are
5 that a well surely should be entitled to drain that portion
6 of its drainage area which lies on its own spacing unit.

7 Further, Union admits that -- acknow-
8 ledges that an unorthodox location for a well may result in
9 legitimate drainage of some hydrocarbons from outside the
10 spacing unit, so we submit that absolutely no way the allow-
11 able should be smaller than the number in column 3 and it
12 should be bigger, as even Union acknowledges, and we propose
13 the relevant way to do it is what is exhibited in column 4
14 and results in the 85 percent factor for a 50-acre drainage.

15 Q I'm sure, Dr. Boneau, that your Exhibit
16 Six, plus it's accompanying exhibits, which really support
17 the summary that's shown on Exhibit nine, is intended to
18 show, is it not, that to the extent the formula proposed by
19 Union uses 320 acres as a net acre factor, it's unrealistic,
20 to say the least, with respect of a well that will drain
21 something less than 320, and in your opinion approximately
22 50 acres, is that not correct?

23 A A well draining 50 acres is being treated
24 unfairly if it's -- if the penalty invoked is based on a
25 320-acre spacing unit, which is no relation to the facts.

1 Q And, Dr. Boneau, the allowable factor you
2 propose is reflected on your Exhibit Six that you introduced
3 earlier -- that was introduced earlier, isn't it?

4 A Yes, sir, that's the 85 percent factor
5 and that's --

6 Q Exhibit Six.

7 A That's Exhibit Six, and that's intended
8 to account for both the unorthodox location and the
9 nonstandard spacing unit.

10 MR. LOSEE: I have no further
11 questions.

12 MR. STAMETS: Mr. Carr, let me
13 ask Mr. Boneau a couple first.

14
15 RE CROSS EXAMINATION

16 BY MR. STAMETS:

17 Q Mr. Boneau, on Exhibit Six the 85 percent
18 which you've got down there at the bottom line, that's 85
19 percent of what?

20 A I think that's most clearly shown on Ex-
21 hibit Five, the picture. 85 -- there's -- on Figure 5
22 there's a 50-acre circle around the Bluestem location.
23 Okay?

24 85 percent of that circle lies either on
25 the Bluestem lease where it's not colored or in the red

1 area, and only 15 percent lies in the blue area.

2 Q Do you want 85 percent of the 50 acre al-
3 lowable or a 160-acre allowable or a 320-acre allowable?

4 A There's very much confusion on that
5 point. I need to answer the question that the Examiner ask.

6 Personally, I would do what Mr. Duff sug-
7 gested and have a six-month deliverability test and give us
8 85 percent of that number.

9 That doesn't fit in with your scheme of
10 things and whatever number you decide, the Commission de-
11 cides is the right number, we should have 85 percent of it.

12 The, and surely you'll agree that the
13 calculated absolute open flow is a large number and, you
14 know, what's happened here in Order 8025 is that we are
15 granted a ridiculously low allowable factor and a higher
16 than reality dictates CAOF or, you know, base factor. Mul-
17 tiplied together they gave a halfway reasonable result but
18 the procedure lacks, and we would like to make the point
19 that somebody ought to address straightening up the proce-
20 dure.

21 Q Your testimony is that there are only 50
22 acres producing in this -- under this well.

23 A Yes, sir.

24 Q But you've got 160 acres dedicated to it.
25 Is there any reason why under those circumstances Yates

1 should be assigned a 160-acre allowable?

2 A Yes, because the formula that somebody
3 got us all boxed into, you know, gives even more ridiculous
4 answers if you go to a 40-acre allowable as you seem to be
5 suggesting. Those calculations and the Union formula gives
6 7 percent, 7.8 percent allowable in that case, when in real-
7 ity, you know, over half the gas is coming from that 40 ac-
8 res.

9 Q Mr. Boneau, it's not clear to me that an
10 allowable formula which gives you an allowable based on 74.2
11 acres is ridiculous when your testimony is that you've only
12 got 50 acres producing.

13 It may be that the formula is --

14 A No, you don't --

15 Q -- over generous.

16 A -- you missed my point. Or I missed your
17 point; I think probably both a little bit.

18 But the result of Order 8025 is within
19 the realm of reason. It's within the realm of reason be-
20 cause, as I interpret it, because it takes a 23 percent al-
21 lowable factor, which I consider ridiculously low, and it
22 takes an absolute open flow number, 900-and something or
23 your acreage, and which is higher than reality, multiplies
24 them together, and gives your 74 acre number, which is with-
25 in reason of my 50 acre number, but the way that you got

1 there is by two wrongs, putting two wrongs together and, of
2 course, I especially object to the wrong that is against us
3 and less vehemently against the wrong which is in our favor.

4 We're finally getting to what we came
5 here to talk about.

6 Q It's a mystery to me that the formula
7 which gives you more allowable than the well can produce,
8 which assigns you more acreage than you actually indicate is
9 productive, how that can have been ultimately a bad formula.
10 Perhaps that's the evidence that the formula is over gener-
11 ous as opposed to being something that's really --

12 A But the part that's --

13 Q -- being a problem.

14 A Excuse me. The part that's been detailed
15 is the allowable part, Union's (not understood). What it's
16 a fraction of is much more -- much more vague, and appar-
17 ently both Union and us were under the impression that it
18 was a fraction of a deliverability and that's the way I've
19 been operating and Mr. Duff's testimony seemed to indicate
20 that that's what he understood.

21 You have introduced some talk about --

22 Q Having read the order again this morning,
23 I think that's not clear on that point. Certainly there
24 were some issues in this hearing that will clarify that.

25 A And what I'm saying is on the allowable

1 part, which we have detailed to a great degree, it's just
2 plain unfair. I don't know if the level that you applied
3 this allowable against is unfair because it's a moving tar-
4 get at the moment.

5 MR. STAMETS: Are there other
6 questions of this witness?

7 Yes, Mr. Carr.

8
9 RE CROSS EXAMINATION

10 BY MR. CARR:

11 Q Dr. Boneau, for the purpose of this cross
12 examination I'd like you to look at what has been marked as
13 Yates Exhibit Number Ten. The Bluestem No. 1 Well, the well
14 that's the subject of today's hearing, is located north of
15 the nearest orthodox location that you indicated on the sub-
16 ject 160-acre unit, is that correct?

17 A Yes, sir.

18 Q Moving to the north you're moving up
19 structure?

20 A Yes, sir.

21 Q And in moving up structure you're moving
22 into where you anticipate better pay.

23 A We did anticipate better pay in the oil
24 zone, yes, sir.

25 Q Based on your study of the area, do you

1 have any reason to believe that there are not recoverable
2 gas reserves under the 40-acre tract to the north in the P-1
3 zone?

4 A No, I believe Union would produce some
5 gas if they perforated that zone.

6 Q Now, if we look at this exhibit, the cir-
7 cle around what is labeled the nearest orthodox location is,
8 as you previously testified 160-acre circle. That's the ac-
9 reage, corresponds to the acreage you've dedicated to the
10 well.

11 A Yes, sir.

12 Q And in all of your calculations you con-
13 tinued to use as one of the elements in these calculations,
14 that 160-acre drainage area.

15 A Yes, sir.

16 Q And then we go to the "ZL" No. 1 Well and
17 you have one circle around that that contains, I believe
18 from this, 35 acres.

19 A No, there's a 40-acre circle and an 80-
20 acre circle.

21 The 35-acre number refers to the area of
22 the red.

23 Q All right.

24 A The 40-acre number refers to the area of
25 the green, and the 19-acre number refers to --

1 Q Based on your understanding of this
2 reservoir, do you believe that a gas well at what you have
3 labeled the nearest orthodox location would drain an area
4 containing 160 acres or do you believe it would have a
5 drainage area more in line with the Bluestem Well?

6 A It would have a drainage area more in
7 line with the Bluestem Well.

8 Q And if that is the case, then, at an or-
9 thodox location there would be no drainage from the Union
10 acreage to the north?

11 A At an orthodox location we might not even
12 drain our own acreage, yes, sir.

13 Q Now if we look at -- in preparing for to-
14 day's case you've reviewed the prior testimony.

15 A Yes, sir.

16 Q And in that testimony didn't Yates tes-
17 tify that they thought the Bluestem Well would drain 80 ac-
18 res?

19 A I believe that's correct, yes, sir.

20 Q And so that 80-acre circle would corres-
21 pond to that -- to that testimony.

22 A Yes. That testimony was based -- was not
23 based on the production data which we now have and I think
24 that my numbers are better than that because we have more
25 data, but you're right in what you say, yes, sir.

1 Q And your calculations that you're
2 presenting here are directed towards the acreage additional
3 drainage encroachment on the offsetting property, is that
4 correct?

5 A If I understand what you mean, that's
6 correct, yes.

7 Q Now, also, to be sure I understand your
8 prior testimony, although there is a penalty under the prior
9 order on this well, the penalty is in no way restricting the
10 well's current producing rate.

11 A That's my understanding and Mr. Stamets
12 has suggested some other way that that allowable should be
13 calculated, but trying to run through the calculations dur-
14 ing the break it seemed that those, that even what he sug-
15 gests would not really affect what the well can produce. We
16 could produce what the well could produce.

17 Q And at 200 MCF per day, you do have a
18 commercial well, do you not?

19 A It's close. The well will probably pay
20 out. No one will get rich on the venture but the well will
21 probably pay out eventually.

22 Q Didn't Mr. Mahfood testify in the last
23 hearing that 200 MCF a day is necessary to make a commercial
24 venture here?

25 A I'm sure you remember better than I.

1 Q Thank you.

2 MR. STAMETS: Mr. Losee, what
3 additional exhibits have you tendered at this time?

4 MR. LOSEE: I move the intro-
5 duction of Exhibits Nine through Twelve. We skipped Seven
6 and Eight and Thirteen, even though you have them in front
7 of you.

8 MR. STAMETS: Exhibits Nine
9 through Twelve will be admitted.

10 MR. LOSEE: No further ques-
11 tions.

12 MR. STAMETS: He may be ex-
13 cused.

14 Does anyone have anything that
15 they wish to offer in this case?

16 MR. CARR: I have a closing
17 statement.

18 MR. STAMETS: You may proceed.

19 MR. CARR: Mr. Stamets, Yates
20 is before you seeking approval of an unorthodox well loca-
21 tion. They have pointed out that Union has recognized in
22 correspondence to them that as we go from gas wells to oil
23 wells that there may be affects on drainage and they didn't
24 object.

25 But I remind you that that let-

1 ter said that wells that are legally drilled, and the orig-
2 inal well location in this case was an unorthodox location
3 for which no approval was obtained. We think that Yates
4 quoting in the letter is certainly proper but I think it's
5 important to show you what the real meaning of the paragraph
6 quoted actually is.

7 They're here today before you.
8 They're talking about how unfair a penalty is but they admit
9 that their well is in fact unrestricted by the penalty that
10 has been imposed. They come in today and say that we're
11 going to attack this penalty imposed because it's really un-
12 fair, it's a bad penalty, bad way to go about this.

13 I'd just call to your attention
14 that when this whole approach was devised back in September
15 of 1978, the first time it was ever used was imposing a pen-
16 alty on an unorthodox location for a well drilled by Yates.
17 This is the first time they've ever deemed it adviseable to
18 come in and attack it on the grounds that there's something
19 fundamentally wrong with the formula itself.

20 They attack it, but they come
21 in with limited information as to how the situation could be
22 improved. And in fact they've come in here and have pre-
23 sented testimony as to how the net acreage encroachment fac-
24 tor could be calculated, and they're only talking about one
25 of three factors which we traditionally use in setting a

1 penalty, and what we'd come up with if we gave them a full
2 100 percent on the encroachment side of this due to the fact
3 that they're 66 percent closer to the north line and the
4 west line and confronted with the fact that we use the for-
5 mula at all, we still haven't come up with in excess of 55
6 percent that would then have to be reduced to the acreage
7 dedicated.

8 Union is seeking a penalty on
9 the production from this well and we're asking you to act
10 under Rule 104-G.

11 As Mr. Losee stated, it author-
12 izes the imposition of a penalty to offset an advantage
13 gained by an unorthodox location. We submit to you that
14 however you come out on this and however you impose a penal-
15 ty, today the penalty that let's the well produce at an un-
16 restricted rate is ineffective in penalizing a well that is
17 two-thirds too close to our acreage; a well that is draining
18 gas from the zone that Dr. Boneau stated contains gas and
19 can be produced on that 40-acre tract.

20 We've come in with a standard
21 formula and we've stood before you and have asked you to
22 base it on the spacing requirements. I think that's the
23 correct thing to do. I think if you don't do that, we wind
24 up with exhibits that look a lot like Yates', where every
25 factor is constructed so it benefits only the person who's

1 advancing the exhibit.

2 We're not talking here about a
3 change in the pool rules. That's not before you today. The
4 pool rules require 320-acre spacing and proration units.
5 We're not talking about what we dedicate to the well.
6 That's something that Yates has within its control, and 160
7 acres is based only on what their acreage position happens
8 to be in this area.

9 They've come in with a formula
10 that is always based on 160-acre drainage for a well at the
11 nearest orthodox location and they got that and yet they ad-
12 mit that if they were trying to be as accurate with that
13 factor as they are with what the subject well would drain,
14 which would be substantially smaller and that in effect that
15 would mean that this blue area, the additional area of
16 drainage, would be increased.

17 They indicate if they drilled
18 at a standard location they might not even be draining from
19 anyone else, and no matter what exhibit you look at and no
20 matter what they calculate, that well to drain, the unortho-
21 dox well to drain, they're draining the vast majority of
22 those reserves to the north from acreage that they do not
23 own.

24 We are asking you to simply en-
25 ter a penalty that would be effective. Just because you

1 haven't done it before and tied it to what the well would
2 produce into a pipeline, we submit it doesn't mean you can't
3 do that now. If you don't do something like that the penal-
4 ty will be academic and we will be right where we are today,
5 a well producing under a penalty, but a well producing at an
6 unrestricted rate that is two-thirds too close to an offset-
7 ting property, a property under which there are commercial
8 gas reserves.

9 MR. STAMETS: If there is no-
10 thing -- oh, you have a closing statement, Mr. Losee, I'm
11 sorry.

12 MR. LOSEE: Thank you. Having
13 been the attorney for Yates when this formula was estab-
14 lished and you all (not clearly understood) it in 1978, I
15 really thought it was about 1977, and I don't know whether
16 Yates has done anything since then about the formula but the
17 only reason Yates didn't at the time was that the well fell
18 on its face, (not clearly understood) a Morrow well south-
19 east of Artesia, and a discussion was had.

20 Union objects to -- well, Yates
21 comes in and requests a production limitation factor of 5
22 percent of deliverability.

23 Union objects and using the
24 formula, which I will grant the Commission has used to the
25 best of my knowledge since 1978, proposes a production lim-

1 itation factor of 23 percent.

2 I thought at the time and Yates
3 thought at the time and thinks today that the formula, to
4 the extent that it ignores actual drainage area of the well,
5 the best evidence of the area, is arbitrary, capricious, and
6 that's exhibited simply by Mr. Duff's response to my
7 question that whether the well drains 40 acres or 640 acres
8 the formula is going to stay the same and, obviously, it
9 seems to me, at least, that the effect on offset operators
10 is multi-times greater if the well is capable of draining
11 640 acres and I recognize that 320 is the spacing provided
12 in this pool, yet if you look at the map you'll notice these
13 gas wells are not on 320-acre spacing.

14 In Tenneco's Well No. 1, that's
15 been a secondary target to the south of the pool, in the
16 southeast, and just as if the Commission grants exceptions
17 to spacing rules when evidence shows that it should be
18 greater or less, I submit to you that it should also grant
19 exceptions to this formula when the evidence indicates that
20 the drainage area is not whatever is the standard for that
21 particular area.

22 At this point Union's been
23 evaluating that P-1 zone. Clearly they don't have enough
24 acreage to dedicate to it. For one reason or another they
25 didn't even make a bid on the offset 40 that would have

1 logically gone into the spacing unit.

2 You know, the fact that they
3 didn't object to Tenneco has a bearing on this case only to
4 the extent that it shows their lack of intent, really, to
5 produce their well in the P-1 zone, and Yates submits that
6 in this case the only evidence is, you know, the well is
7 likely to drain approximately 50 acres. Yates grants you
8 that this early in the life we're not able to tell exactly,
9 but even Union admits it's not going to drain 320, and we
10 think the Yates submits that the formula proposed on its Ex-
11 hibit Three, which if you take only a 50-acre area, 55 per-
12 cent of the drainage will occur, contrary to my -- counsel's
13 position, from the Bluestem Lease, not from 160 acres.

14 If you take a 160-acre spacing
15 then approximately 85 percent of the gas will be produced
16 within that area, if the 160-acre circle is at an orthodox
17 location and we submit that that is the proper approach;
18 either the 55 percent of the calculated open flow or the 85
19 percent, and I think that's what is in evidence before the
20 Commission; that it's not arbitrary (not clearly under-
21 stood.)

22 That's all.

23 MR. STAMETS: If there is
24 nothing further Case 8614 will be taken under advisement.

25

(Hearing concluded.)

C E R T I F I C A T E

I, SALLY W. BOYD, C.S.R., DO HEREBY
CERTIFY that the foregoing Transcript of Hearing before the
Oil Conservation Division (Commission) was reported by me;
that the said transcript is a full, true, and correct record
of the hearing, prepared by me to the best of my ability.

Sally W. Boyd CSR

1 STATE OF NEW MEXICO
2 ENERGY AND MINERALS DEPARTMENT
3 OIL CONSERVATION DIVISION
4 STATE LAND OFFICE BLDG.
5 SANTA FE, NEW MEXICO

6 19 November 1985

7 COMMISSION HEARING

8 IN THE MATTER OF:

9 Disposition of cases with no testi-
10 mony during Commission Hearing held
11 19 November, 1985.

CASE
12 8614, 8640,
13 8463

14 BEFORE: Richard L. Stamets, Chairman
15 Ed Kelley, Commissioner

16 TRANSCRIPT OF HEARING

17 A P P E A R A N C E S

18 For the Division: Elliot L. Weinreb
19 Attorney at Law
20 Energy and Minerals Dept.
21 525 Camino Los Marquez
22 Santa Fe, New Mexico 87501

23 For the Applicant:
24
25

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3 MR. STAMETS: The hearing will
4 please come to order.

5 This morning first I'm going to
6 call the last three cases which have each been continued to
7 the January 7th Commission hearing.

8 Those would be Cases 8614, ap-
9 plication of Yates Petroleum for an exception to the Special
10 Rules and Regulations for the Bluit-San Andres Associated
11 Pool;

12 Case 8640, application of Caul-
13 kins Oil Company for compulsory pooling, downhole comming-
14 ling, and dual completion, Rio Arriba County;

15 And application -- or Case
16 8463, application of David Fasken for termination of prora-
17 tioning in the Burton Flat-Morrow Gas Pool, Eddy County, New
18 Mexico.

19 Each of those cases is con-
20 tinued to that next Commission Hearing.

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(Hearing concluded.)

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C E R T I F I C A T E

I, SALLY W. BOYD, C.S.R., DO HEREBY CERTIFY that the foregoing Transcript of Hearing before the Oil Conservation Division (Commission) was reported by me; that the said transcript is a full, true, and correct record of the hearing, prepared by me to the best of my ability.

Sally W. Boyd CSR