CASE 6295: YATES PETROLEUM CORPORATION FOR SPECIAL POOL RULES, LEA COUNTY, NEW MEXICO

CASE NO.

6295

APPlication,
Transcripts,
Small Exhibits,

ETC.

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

CASE NO. 6295 Order No. R-5793

APPLICATION OF YATES PETROLEUM CORPORATION FOR SPECIAL POOL RULES, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on August 16, 1978, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 25th day of August, 1978, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Yates Petroleum Corporation, seeks the promulgation of special pool rules for the Austin-Mississippian Gas Pool, Lea County, New Mexico, to provide for 320-acre spacing rather than 160 acres.
- (3) That in the alternative, the applicant seeks to limit the 160-acre spacing rules of said Austin-Mississippian Gas Pool to the present horizontal limits of the pool.
- (4) That said Austin-Mississippian Gas Pool was created and designated by the Commission by Order No. R-1129, effective February 20, 1958.
- (5) That by Commission Order No. R-2707, dated May 25, 1964, Rule 104 of the Commission Rules and Regulations was amended to provide that all gas pools of Pennsylvanian age

-2-Case No. 6295 Order No. R-5793

or older in Southeast New Mexico which were created and defined June 1, 1964, or later shall have 320-acre spacing and proration units, inasmuch as it was found that in Southeast New Mexico,... agas well completed in the Pennsylvanian formation or a deeper formation will efficiently and economically drain and develop a 320-acre tract."

- (6) That the applicant in the instant case seeks the promulgation of rules including a provision for 320-acre spacing for the Austin-Mississippian Gas Pool in Lea County, New Mexico, inasmuch as that pool was excluded from the provisions of Order No. R-2707, because it was created and defined prior to the cut-off date of June 1, 1964.
- (7) That one well in the Austin-Mississippian Gas Pool in Lea County, New Mexico, will efficiently and economically drain and develop 320 acres, and the inclusion of said pool under the 320-acre provisions of Rule 104 for pools of Pennsylvanian age or older will not cause waste nor violate correlative rights, and should be approved.
- (8) That to protect the rights of interest owners in the original well within said Austin-Mississippian Gas Pool, said well should be granted an exception to the well location requirements for the pool, and a non-standard 160-acre gas well spacing and proration unit for said well should be approved.
- (9) That approval of this application for special pool rules subject to the provisions of Finding (8) above will not cause waste nor impair correlative rights and should be approved.

IT IS THEREFORE ORDERED:

(1) That effective September 1, 1978, each well completed or recompleted in the Austin-Mississippian Gas Pool or in the Mississippian formation within one mile thereof shall be subject to the provisions of Rule 104 of the Commission Rules and Regulations notwithstanding the fact said pool was created and defined prior to June 1, 1964.

PROVIDED HOWEVER; that a 160-acre non-standard gas spacing and proration unit comprising the SW/4 of Section 17, Township 14 South, Range 36 East, NMPM, Lea County, New Mexico, is hereby approved and dedicated to the Phillips Petroleum Company Austin Com Well No. 1, located in Unit L of said Section 17.

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IT IS FURTHER ORDERED:

- (1) That the locations of all wells presently drilling to or completed in the Austin-Mississippian Gas Pool or in the Mississippian formation within one mile thereof are hereby approved; that the operator of any well having an unorthodox location shall notify the Hobbs District Office of the Division in writing of the name and location of the well by November 1, 1978.
- (2) That except as provided above and pursuant to Paragraph A. of Section 65-3-14.5, NMSA 1953, contained in Chapter 271, Laws of 1969, existing wells in the Austin-Mississippian Gas Pool shall have dedigated thereto 320 acres in accordance with Rule 104 of the Division Rules and Regulations; or pursuant to Paragraph C. of said Section 65-3-14.5, existing wells may have non-standard units dedicated thereto.

Failure to file new Forms C=102 with the Division dedicating 320 acres to a well or to obtain a non-standard unit approved by the Division within 60 days from the effective date of this order shall subject the well to cancellation of allowable.

(3) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year herein-above designated.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

DOE D. RAMEY, Director

The same

dr/



ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

JERRY APODACA

NICK FRANKLIN GECRETARY

August 25, 1978

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-2434

Mr. A. J. Losee Losee & Carson	Re:	CASE NO. 6295 ORDER NO.R-5793			
Attorneys at Law Post Office Box 239 Artesia, New Mexico	88210	Applicant:			

Yates Petroleum Corporation

Dear Sir:

Enclosed herewith are two copies of the above-referenced Division order recently entered in the subject case.

Yours very truly,

JOE D. RAMEY

Director

JDR/fd

Copy of order also sent to:

Hobbs OCC X
Artesia OCC X
Aztec OCC

Other Robert Strand

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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION State Land Office Building Santa Fe, New Mexico 16 August 1978 EXAMINER HEARING IN THE MATTER OF: Application of Yates Petroleum CASE Corporation for special pool rules,) 6295 Lea County, New Mexico. 10 BEFORE: Richard L. Stamets 12 13 TRANSCRIPT OF HEARING 14 15 APPEARANCES 16 17 For the Oil Conservation Lynn Teschendorf, Esq. Legal Counsel for the Division Division: 18 State Land Office Bldg. Santa Fe, New Mexico 87501 19 For the Applicant: A. J. Losee, Esq. LOSEE, CARSON & DICKERSON 21 Artesia, New Mexico 22 and

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Robert Strand, Esq. Roswell, New Mexico

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case?

MR. STAMETS: Call next Case 6295.

MS. TESCHENDORF: Case 6295. Application of Yates Petroleum Corporation, for special pool rules, Lea County, New Mexico.

MR. LOSEE: A. J. Losee, Losee, Carson, and Dickerson, Artesia, appearing on behalf of the applicant. I have two witnesses to be sworn.

(Witnesses sworn.)

MR. STAMETS: Are there other appearances in this

MR. STRAND: Yes, Mr. Examiner. I'm Robert Strand, attorney for Harvey E. Yates Company, appearing in support of the application.

MR. STAMETS: Thank you.

DAVID HARLEY

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

DIRECT EXAMINATION

BY MR. LOSEE:

- Will you state your name, please?
- David Harley.
 - Where do you live and what is your occupation?
 - I live in Artesia, New Mexico, and my occupation

is	а	ceologist	for	Yates	Petroleum	Corporation.
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- You have not testified before this Commission before, have you?
 - No. A.

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- What universities did you attend and what de-Q. grees did you obtain?
- I attended Oregon State University and obtained A. a Bachelor of Science degree in geology and a Master of Science degree in geology.
- What year did you obtain your Bachelor of Q. Science?
- In 1966 and my Master's degree I obtained in Α. 1974.
- Since obtaining your Master's what has been Q. your employment?
- I worked for Tenneco Oil Company for three years A. in Bakersfield, California. For two of those three years, and for one year in the Gulf Coast region.
- After leaving Tenneco where did you go for em-Q. ployment?
- Okay. In April of 1977 I was employed by Yates Petroleum Corporation and am presently employed by them.
- Have you been working since April of '77 in the Pennsylvanian-Mississippian area in southeast New Mexico?
 - Yes. A.

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MR. LOSEE: Are Mr. Harvey's qualifications acceptable, Mr. Examiner?

MR. STAMETS: Mr. Harley, in the three years with Tenneco, your duties were as a geologist?

A. As an exploration geologist.

MR. STAMETS: Yes, the witness is considered qualified.

Q (Mr. Losee continuing.) Would you state the purpose of this application in Case Number 6295?

A. In this case Yates Petroleum Corporation requests approval of a change from 160-acre spacing to 320-acres for the Austin-Mississippian Pool, or that in the alternative, a non-standard pool be formed in which the --160 acres presently designated for the Phillips Austin No. 1 be retained and 320-acre spacing be provided for subsequent wells in the pool.

- Now, this Austin-Mississippian -- or this
 Phillips Austin No. 1 Well was drilled prior to statewide
 320 spacing for the Pennsylvanian or older formations, was
 it not?
 - A. Yes, in approximately 1966.
- Q I'll hand you what has been marked as Exhibit
 One and ask you to explain what is portrayed by this exhibit.
 - A. Exhibit One is a land plat which shows the --

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MR. STAMETS: Do we have a copy of that up here? MR. LOSEE: Yes.

MR. STAMETS: Oh, okay, I see it.

Go ahead.

This land plat shows the working interest unit outlined in red that was formed prior to the drilling of the Adobe State 1-16. This working interest unit on the original test well, the primary ownership involved here was the Adobe Oil and Gas Corporation and related companies.

Before payout was 32.136 percent and after payout 28.097 percent.

Yates Petroleum Corporation and related companies, 42.348 percent before payout and after payout 37.028 percent, and the Harvey E. Yates Company, 21.257 percent before payout and 18.586 percent after payout.

So that actually Yates Petroleum Corporation has a larger interest in this well and working interest unit than Adobe and its related companies?

Yes, sir. A.

This plat also shows the location of the two gas wells that are presently -- that will produce from the Austin formation and they are marked in red. This plat also shows the operators and wells within a two-mile radius of the two producers.

Who is operator of that working interest unit?

A. Adobe is.

Q. Please turn to what has been marked as Exhibit
Two and explain what is shown --- reflected by this exhibit.

A. All right. This is a plat showing the wells in Township 15 South, Range 36 East, of Lea County. This plat shows the wells that have penetrated the Austin formation. It also shows the lines of intersection — excuse me, the lines of cross sections that have been constructed for this examination.

The two producers from the Austin formation are in Section 16 and 17.

- Q. Now, the well that's in 17 was the well that's been producing for a good many years, has it not?
- A. Yes, this is the Phillips Petroleum Austin No.
- Q. And the well in 16, which is the Adobe State 1-16, was just recently completed? Or is in the process of being completed?
 - A. Yes, sir.
- Q. Please turn to what has been marked as Exhibit
 Three and explain to the Examiner what is portrayed by this exhibit.
- A. This is a west to east cross section as shown on Exhibit Two, and this cross section is for the purpose of showing the correlation of the pay zones in the Adobe

State 1-16 and the Phillips Austin No. 1.

This exhibit also shows the structural relationship of these two wells to surrounding wells, showing that they are structurally high to surrounding wells.

This exhibit also shows that in both wells the pay zone is a porous collitic limestone, and these three factors as shown on this exhibit, portray a continuity of the pay zone from the Adobe State No. 1-16 to the Phillips Austin No. 1.

- Does your exhibit also have the drill stem test that was run on the -- taken on the Phillips well?
- A. No, we do not have listed the drill stem test. We do have the perforations as shown on the cross section of both of the wells in the Austin formation, Phillips and the Adobe well.

We have a drill stem test on the Cherry Brothers and Cabot Corporation Austin State No. 1 Well, which is to the west of the Phillips well.

- Now, the Cherry Brothers and the Zapata Petroleum Corporation wells were both dry in this zone?
 - A. Yes.
- Q. Were Exhibits One through Three prepared by you or under your direction?
 - A. Yes, they were.

MR. LOSEE: I move the introduction of Exhibits

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One through Three.

MR. STAMETS: These exhibits will be admitted.

MR. LOSEE: That's all the questions that I have on direct, Mr. Examiner.

CROSS EXAMINATION

BY MR. STAMETS:

Mr. Harley, is there any -- let me preface my Q. question by saying this: There are very, very few Mississippian pools in the state. Is there any doubt that this is Mississippian formation?

- I have no doubt.
- Okay, that's --
- There are others that disagree with me on it.
- That's a sufficient answer in this case. Certainly the cross section appears to be a Mississippian type limestone, especially in the Adobe well.

MR. STAMETS: Any other questions of this witness?

MR. LOSEE: I have a couple others that may help the examiner. Your question reminded me of it.

REDIRECT EXAMINATION

BY MR. LOSEE:

There are how many other fields that you've

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found in southeastern New Mexico in the Mississippian lime?

A. Well, on brief recognizance of the different

Mississippian gas pools, I found two in Chaves — well, one in Chaves County and one in Roosevelt County. The White Ranch Mississippian Gas Field was formed in 1977 when Tom L. Ingram well was recompleted from a Devonian to Mississippian formation, and it was granted 320-acre spacing on statewide rules.

In Roosevelt County the Denton Camp Mississippian Pool was formed in the 1973 and --- approximately in 1973 --- and was also completed in the Mississippian formation.

- Q The spacing for that field is 320 acres.
- A. Yes, sir.
- Q And there's two wells in the White Ranch?
- A. Yes.
- One well in the Denton Camp?
- A. Yes.

MR. LOSEE: I think that's all.

MR. STAMETS: Any other questions of the witness? He may be excused.

PEYTON YATES

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

DIRECT EXAMINATION

BY MR. LOSEE:

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State your name, residence, and occupation. Q.

My name is Peyton Yates. I live in Artesia, A. Hew Mexico, and I'm a petroleum engineer.

O. You've previously testified before this Commission and had your qualifications made part of the record?

A. Yes, sir.

MR. LOSEE: Are Mr. Yates qualifications acceptable, Mr. Examiner?

> MR. STAMETS: They are.

(Mr. Losee continuing.) Would you please refer to what has been marked as Exhibit Two and Exhibit Three, and explain from an engineering standpoint the relevancy of these exhibits to this application?

Okay. I wish to discuss the two completed A. wells in the Austin-Mississippian interval in this township, namesly, the Phillips Petroleum No. 1 Austin, located in the southwest quarter of Section 17, Township 14 South, Range 36 East, and the Adobe State 1-16, located in the southwest quarter of Section 16, Township 14 South, Range 36 East.

These wells are shown on the plat in Exhibit Two and are approximately one mile apart.

 The Phillips well was completed in July of 1957. Well card information indicates the original bottom hole pressure by drill stem test to be 5315 pounds per square inch.

The drill stem test was taken over the test interval 13,195 to 13,305, which covered the Austin-Mississ-ippian interval, which is from 13,270 to 86. Excuse me, that must be a larger interval than that. I think those were some perforations rather than the entire Austin interval.

The data reported on the card as being from a seventeen minute shutin after a two and one-half hour flow period during which the well unloaded a 4900 foot water blanket and flowed 1-1/2 million cubic feet per day.

I've also found in the state well files that at the time that Phillips completed the well, they reported a tubing pressure of 4400 pounds. This was also in 1057.

In January of 1962 the Phillips well in Section 17 went on stream and as of April the 1st, 1977, had produced 4-billion .779 million cubic feet of gas -- or excuse me, let's make that 4-billion .061779 cubic feet of gas and 57,516 barrels of oil.

The average production rate of the month of March was -- of this year, was 444 Mcf per day.

The Adobe well in Section 16 was completed in ---

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on April the 29th of 1978. A drill stem test was run on March the 28th of 1978 across the interval 13,186 to 13,310, which includes the Austin-Mississippian porosity interval from 13,199 to 13,261.

The final shutin pressure on the drill stem test was 4,843 pounds per square inch, which is 472 pounds per square inch lower than the drill stem test bottom hole pressure on the Phillips well.

The drill stem test final build-up extrapolates, when plotted on a T or a Horner-type plot, extrapolates to 4,925 pounds per square inch, or 390 pounds per square inch lower than the original bottom hole pressure on the Phillips No. 1 Austin Well as determined from the seventeen minute shutin.

I could not find any data with which to extrapolate the Austin -- the Phillips well, if it indeed could be extrapolated.

The Adobe well was completed for a calculated open -- absolute open flow of 2704 Mcf per day. testing the Adobe well for the four-point test, the well was shut in; from April the 29th, 1978, until July the 28th, 1978, the shut in bottom hole pressure climbed from an 39 hour shutin bottom hole pressure of 4,175 to a 2,160 hour shutin bottom hole pressure of 4,724 pounds, both measured at a depth of 13,230 feet.

Surface pressures, as reported to us by the operator, had changed less than 100 psi since May the 22nd, from May the 22nd, that is, until July the 28th. Therefore the well is apparently near stabilizing its pressure.

The 4,724 pounds per square inch reading after 2,000 hours of shutin is 591 pounds per square inch less than the original bottom hole pressure as taken from the DST on the Phillips well.

If we compare shutin tubing pressures, we will find that even greater difference in pressure between the Phillips well and the Austin well. The shutin tubing pressure as reported in 1957 on the Phillips well was 4400 pounds per square inch. The Adobe well shutin tubing pressure also was taken on July the 28th, 1978, after a 2,160 hour shutin, was 3,221 pounds.

The difference is 1279 pounds per square inch.

If the tubing pressure on the Phillips well is indeed correct, it would probably indicate that the drill stem test pressure on the Phillips well, which was 5,315 pounds, was probably a low pressure and would have built up to a high pressure had the well been shutin longer.

It should be noted that the Adobe well was only 33 feet structurally low to the Phillips well. The Adobe well has approximately 40 feet of pay and the Phillips well, 61 feet of pay, using a 4 percent porosity cutoff.

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On August the 8th, which was just last week, the Adobe well was given a 40,000 gallon acid treatment. The latest reports as of this morning show the well to be flowing from 1500 to 2000 Mcf per day at from 1750 to 2600 pounds flowing tubing pressure.

It should also be noted that the Phillips well initially went on stream at approximately 1500 Mcf per day. We have no record of what its flowing tubing pressure was.

0. Mr. Yates, do you arrive at some conclusion with respect to this pressure data?

A. Yes. When we take into consideration geologic correlation that has been presented at this hearing today, the similarity in the type rocks, as reported in sample reports, we feel that there is very little doubt at this point that the two wells are completed in the same reservoir, and that it is very likely that they are in communication with -- one with another. The important thing, we think, relative to this hearing is that the original bottom hole pressure on the Adobe well has been reduced by production of the Phillips well, which is approximately one mile away. This reduction in pressure we believe to be a minimum 390 pounds per square inch and as much as over a -- a figure over 1200 pounds per square inch.

This indicates that the production from the Phillips well is draining effectively a distance of at least

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5,280 feet.

For this reason we are convinced 320-acre spacing, which is the standard gas well spacing to the depth and formation should be applied to this reservoir.

- Do you believe that 320-acre spacing for this reservoir will protect the correlative rights and prevent waste?
 - A. Yes.
- Now, Mr. Yates, the application of your company is for alternative relief, one of which requests that the whole pool be spaced on 320-acre spacing, and the other is that the 160-acre spacing be continued for the original well located in the southwest quarter of Section 17.

 Would you discuss for the Examiner the possible problem encountered if the whole --- the original pool were changed to 320-acre spacing?
- A. Yes, sir. Could I see the land plat, please?

 We recognize the difficulty that attempting
 to change the spacing on the pool, existing pool, from
 160 acres to 320 acres puts the -- difficulty that arises
 for the Commission in trying to protect correlative rights
 with respect to the existing, the already existing and
 producing well.

We feel very positive that it is necessary to go to 320-acre spacing for the remaining wells if at all

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possible in this particular reservoir for the reasons that we have stated.

We do however recognize that it may be necessary for the Commission to maintain a nonstandard location at the very least for the Phillips well to maintain its present 160-acre spacing, and possibly permit in the northwest quarter of Section 17 a nonstandard well to be drilled in order for those parties to protect their correlative rights. Yates would have no objection to a nonstandard well being drilled in that particular northwest quarter in Section 17.

We would attempt and would encourage the operator of the existing unit to unitize the east half of Section 17 to drill a well on 320-acre spacing, if that were so approved by the Commission.

MR. LOSEE: I have no further questions of the witness.

CROSS EXAMINATION

BY MR. STAMETS:

Q. Mr. Yates, have you had any direct contact with Phillips Petroleum on this application?

A. No, sir.

Q. They have not indicated any desire one way or the other, what they'd like to have, whether they'd like to have your direct application or your alternative approved?

;

 A. No, sir, we -- I have not talked with them.

9. It doesn't appear as though Phillips is represented here today.

MR. STAMETS: Any other questions of this witness?

He may be excused.

MR. LOSEF: Mr. Examiner, I'd like to explain that a little bit. From Yates Petroleum's standpoint we have no preference as to either request for relief, either to shrink it to the 160 or put the original pool on 320's. I do envision a problem on a well that's been drilled and put on production in 1964 with 4-billion cubic feet having been produced from it, to put it on 320. Whether Southern Union that happens to have the northwest quarter in that section gets hauled into the unit and how they adjust cost among themselves, and as a result I think it would behoove the Commission to really consider our alternative relief.

That's the only statement I have.

MR. STAMETS: Would it appear within the call of the hearing to grant the relief administratively upon an application by the original operator, Phillips?

MR. LOSEE: To do what, now?

MR. STAMETS: Provide Phillips Petroleum the opportunity to decide whether they wanted 320 or 160 and upon their application we could limit the old pool rules

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to the 160 that they're on or have the new pool rules effective.

MR. LOSEE: I don't, frankly, I don't think we've said anything about administrative, and I can't envision Phillips wanting to get in an argument with Southern Union as to reimbursement of costs of a well that's been on since '64 and produced 4-billion cubic feet of gas.

From Yates' standpoint if you approve the alternative relief and put it on the 160, the original pool, obviously there has to be a nonstandard unit and we will not object if Southern Union or anyone else proposes to drill a well up in the northwest quarter. We can't speak for Adobe, of course. Maybe Mr. Strand, who's here with Harvey Yates Company, can speak for them.

But I just think from a practical standpoint that that would cause less problems with everybody.

MR. STAMETS: Okay.

MR. LOSEE: For what that may be worth.

MR. STAMETS: Is there anything further in this

case?

MR. STRAND: Mr. Examiner, on behalf of Harvey

E. Yates Company, we would support either alternative. As

Mr. Harley stated, we own a substantial interest in the unit

area and fully concur with the application and could go with

either alternative on it.

MR. STAMETS: Anything further in this case?

I have nothing further. MR. LOSEE:

STAMETS: The case will be taken under

advisement. Do you have an extra set of the exhibits?

MR. LOSEE: Yes.

(Hearing concluded.)

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REPORTER'S CERTIFICATE

I, SALLY WALTON BOYD, a Court Reporter, DO HEREBY CERTIFY that the foregoing and attached Transcript of Hearing before the Oil Conservation Division 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, knowledge, and skill, from my notes taken at the time of the hearing.

Sally Walton Boyd, C.S.R.

I do hereby certify that the foregoing 10 a complete record of the proceedings in the Examiner hearing of Case No. 295

New Mexico Oil Conservation Commission

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case?

IR.	STAMETS:	Call	next	Case	6295.

MS. TESCHENDORF: Case 6295. Application of Yates Petroleum Corporation, for special pool rules, Lea County, New Mexico.

MR. LOSEE: A. J. Losee, Losee, Carson, and Dickerson, Artesia, appearing on behalf of the applicant. I have two witnesses to be sworn.

(Witnesses sworm.)

MR. STAMETS: Are there other appearances in this

MR. STRAND: Yes, Mr. Examiner. I'm Robert Strand, attorney for Harvey E. Yates Company, appearing in support of the application.

MR. STAMETS: Thank you.

DAVID HARLEY

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

DIRECT EXAMINATION

BY MR. LOSEE:

- Will you state your name, please? Q.
- David Harley.
 - Where do you live and what is your occupation?
 - I live in Artesia, New Mexico, and my occupation

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a Bachelor of Science degree in geology and a Master of 8 Science degree in geology. 9 What year did you obtain your Bachelor of 10 Science? 11 12 In 1966 and my Master's degree I obtained in 13 1974. 14 Since obtaining your Master's what has been 15 your employment? I worked for Tenneco Oil Company for three years 16 17 in Bakersfield, California. For two of those three years, 18 and for one year in the Gulf Coast region. After leaving Tenneco where did you go for em-19 20 ployment? Okay. In April of 1977 I was employed by Yates 21 22 Potroleum Corporation and am presently employed by them.

is a geologist for Yates Petroleum Corporation.

before, have you?

grees did you obtain?

No.

A.

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You have not testified before this Commission

What universities did you attend and what de-

I attended Oregon State University and obtained

Have you been working since April of '77 in the

Pennsylvanian-Mississippian area in southeast New Mexico?

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MR. LOSEE: Are Mr. Harvey's qualifications acceptable, Mr. Examiner?

MR. STAMETS: Mr. Harley, in the three years with Tenneco, your duties were as a geologist?

A As an exploration geologist.

MR. STAMETS: Yes, the witness is considered qualified.

Q (Mr. Losee continuing.) Would you state the purpose of this application in Case Number 6295?

A. In this case Yates Petroleum Corporation requests approval of a change from 160-acre spacing to 320-acres for the Austin-Mississippian Pool, or that in the alternative, a non-standard pool be formed in which the --160 acres presently designated for the Phillips Austin No. 1 be retained and 320-acre spacing be provided for subsequent wells in the pool.

Q Now, this Austin-Mississippian -- or this Phillips Austin No. 1 Well was drilled prior to statewide 320 spacing for the Pennsylvanian or older formations, was it not?

- A Yes, in approximately 1966.
- I'll hand you what has been marked as Exhibit
 One and ask you to explain what is portrayed by this exhibit.
 - A Exhibit One is a land plat which shows the --

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MR. STAMETS: Do we have a copy of that up here?

MR. LOSEE: Yes.

MR. STAMETS: Oh, okay, I see it.

Q Go ahead.

A. This land plat shows the working interest unit outlined in red that was formed prior to the drilling of the Adobe State 1-16. This working interest unit on the original test well, the primary ownership involved here was the Adobe Oil and Gas Corporation and related companies.

Before payout was 32.136 percent and after payout 28.097 percent.

Yates Petroleum Corporation and related companies, 42.348 percent before payout and after payout 37.028
percent, and the Harvey E. Yates Company, 21.257 percent
before payout and 18.586 percent after payout.

Q So that actually Yates Petroleum Corporation has a larger interest in this well and working interest unit than Adobe and its related companies?

A. Yes, sir.

This plat also shows the location of the two
gas wells that are presently -- that will produce from the
Austin formation and they are marked in red. This plat
also shows the operators and wells within a two-mile radius
of the two producers.

Who is operator of that working interest unit?

SALLY WALTON EIOYD CERTIFIED SHORTHAND REPORTER Bishop's Lodge Road + Phone (505) 988-3 Santa Fe, New Mexico 87501

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Q Please turn to what has been marked as Exhibit
Two and explain what is shown -- reflected by this exhibit.

A All right. This is a plat showing the wells in Township 15 South, Range 36 East, of Lea County. This plat shows the wells that have penetrated the Austin formation. It also shows the lines of intersection — excuse me, the lines of cross sections that have been constructed for this examination.

The two producers from the Austin formation are in Section 16 and 17.

- now, the well that's in 17 was the well that's been producing for a good many years, has it not?
- A Yes, this is the Phillips Petroleum Austin No.
- Q And the well in 16, which is the Adobe State 1-16, was just recently completed? Or is in the process of being completed?
 - A Yes, sir.
- Q Please turn to what has been marked as Exhibit
 Three and explain to the Examiner what is portrayed by this
 exhibit.
- A. This is a west to east cross section as shown on Exhibit Two, and this cross section is for the purpose of showing the correlation of the pay zones in the Adobe

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State 1-16 and the Phillips Austin No. 1.

This exhibit also shows the structural relationship of these two wells to surrounding wells, showing that they are structurally high to surrounding wells.

This exhibit also shows that in both wells the pay zone is a porous collic limestone, and these three factors as shown on this exhibit, portray a continuity of the pay zone from the Adobe State No. 1-16 to the Phillips Austin No. 1.

- Q Does your exhibit also have the drill stem test that was run on the -- taken on the Phillips well?
- A No, we do not have listed the drill stem test. We do have the perforations as shown on the cross section of both of the wells in the Austin formation, Phillips and the Adobe well.

We have a drill stem test on the Cherry Brothers and Cabot Corporation Austin State No. 1 Well, which is to the West of the Phillips well.

- Q Now, the Cherry Brothers and the Zapata Petroleum Corporation wells were both dry in this zone?
 - A Yes.
- Q Were Exhibits One through Three prepared by you or under your direction?
 - A. Yes, they were.

MR. LOSEE: I move the introduction of Exhibits

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One through Three.

MR. STAMETS: These exhibits will be admitted.

MR. LOSEE: That's all the questions that I have on direct, Mr. Examiner.

CROSS EXAMINATION

BY MR. STAMETS:

Q Mr. Harley, is there any -- let me preface my question by saying this: There are very, very few Mississippian pools in the state. Is there any doubt that this is Mississippian formation?

- I have no doubt.
- Okay, that's --
- There are others that disagree with me on it.
- That's a sufficient answer in this case. Certainly the cross section appears to be a Mississippian type limestone, especially in the Adobe well.

MR. STAMETS: Any other questions of this witness?

MR. LOSEE: I have a couple others that may help the examiner. Your question reminded me of it.

REDIRECT EXAMINATION

BY MR. LOSEE:

There are how many other fields that you've

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found in southeastern New Mexico in the Mississippian lime?

Mississippian gas pools, I found two in Chaves -- well, one in Chaves County and one in Roosevelt County. The White Ranch Mississippian Gas Field was formed in 1977 when Tom L. Ingram well was recompleted from a Devonian to Mississippian formation, and it was granted 320-acre spacing on statewide rules.

In Roosevelt County the Denton Camp Mississippian Pool was formed in the 1973 and -- approximately in 1973 -- and was also completed in the Mississippian formation.

- Q The spacing for that field is 320 acres.
- A Yes, sir.
- a And there's two wells in the White Ranch?
- A Yes.
- Q One well in the Denton Camp?
- A Yes.

MR. LOSEE: I think that's all.

MR. STAMETS: Any other questions of the witness? He may be excused.

PEYTON YATES

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

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DIRECT EXAMINATION

BY MR. LOSEE:

- Q State your name, residence, and occupation.
- A. My name is Peyton Yates. I live in Artesia, New Mexico, and I'm a petroleum engineer.
- Q You've previously testified before this Commission and had your qualifications made part of the record?
 - A. Yes, sir.

MR. LOSEE: Are Mr. Yates qualifications acceptable, Mr. Examiner?

MR. STAMETS: They are.

- Q (Mr. Losee continuing.) Would you please refer to what has been marked as Exhibit Two and Exhibit Three, and explain from an engineering standpoint the relevancy of these exhibits to this application?
- A. Okay. I wish to discuss the two completed wells in the Austin-Mississippian interval in this township, namesly, the Phillips Petroleum No. 1 Austin, located in the southwest quarter of Section 17, Township 14 South, Range 36 East, and the Adobe State 1-16, located in the southwest quarter of Section 16, Township 14 South, Range 36 East.

These wells are shown on the plat in Exhibit

Two and are approximately one mile apart.

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The Phillips well was completed in July of 1957. Well card information indicates the original bottom hole pressure by drill stem test to be 5315 pounds per square inch.

The drill stem test was taken over the test interval 13,195 to 13,305, which covered the Austin-Mississippian interval, which is from 13,270 to 86. Excuse me, that must be a larger interval than that. I think those were some perforations rather than the entire Austin interval.

The data reported on the card as being from a seventeen minute shutin after a two and one-half hour flow period during which the well unloaded a 4900 foot water blanket and flowed 1-1/2 million cubic feet per day.

I've also found in the state well files that at the time that Phillips completed the well, they reported a tubing pressure of 4400 pounds. This was also in 1957.

In January of 1962 the Phillips well in Section 17 went on stream and as of April the 1st, 1977, had produced 4-billion .779 million cubic feet of gas -- or excuse me, let's make that 4-billion .061779 cubic feet of gas and 57,516 barrels of oil.

The average production rate of the month of March was -- of this year, was 444 Mcf per day.

The Adobe well in Section 16 was completed in --

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on April the 29th of 1978. A drill stem test was run on March the 28th of 1978 across the interval 13,186 to 13,310, which includes the Austin-Mississippian porosity interval from 13,199 to 13,261.

The final shutin pressure on the drill stem test was 4,843 pounds per square inch, which is 472 pounds per square inch lower than the drill stem test bottom hole pressure on the Phillips well.

The drill stem test final build-up extrapolates, when plotted on a T or a Horner-type plot, extrapolates to 4,925 pounds per square inch, or 390 pounds per square inch lower than the original bottom hole pressure on the Phillips No. 1 Austin Well as determined from the seventeen minute shutin.

I could not find any data with which to extrapolate the Austin -- the Phillips well, if it indeed could be extrapolated.

The Adobe well was completed for a calculated open -- absolute open flow of 2704 Mcf per day. After testing the Adobe well for the four-point test, the well was shut in; from April the 29th, 1978, until July the 28th, 1978, the shut in bottom hole pressure climbed from an 89 hour shutin bottom hole pressure of 4,176 to a 2,160 hour shutin bottom hole pressure of 4,724 pounds, both measured at a depth of 13,230 feet.

Surface pressures, as reported to us by the operator, had changed less than 100 psi since May the 22nd, from May the 22nd, that is, until July the 28th. Therefore the well is apparently near stabilizing its pressure.

The 4,724 pounds per square inch reading after 2,000 hours of shutin is 591 pounds per square inch less than the original bottom hole pressure as taken from the DST on the Phillips well.

If we compare shutin tubing pressures, we will find that even greater difference in pressure between the Phillips well and the Austin well. The shutin tubing pressure as reported in 1957 on the Phillips well was 4400 pounds per square inch. The Adobe well shutin tubing pressure also was taken on July the 28th, 1978, after a 2,160 hour shutin, was 3,221 pounds.

The difference is 1279 pounds per square inch.

If the tubing pressure on the Phillips well is indeed correct, it would probably indicate that the drill stem test pressure on the Phillips well, which was 5,315 pounds, was probably a low pressure and would have built up to a high pressure had the well been shutin longer.

It should be noted that the Adobe well was only 33 feet structurally low to the Phillips well. The Adobe well has approximately 40 feet of pay and the Phillips well, 61 feet of pay, using a 4 percent porosity cutoff.

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 On August the 8th, which was just last week, the Adobe well was given a 40,000 gallon acid treatment. The latest reports as of this morning show the well to be flowing from 1500 to 2000 Mcf per day at from 1750 to 2600 pounds flowing tubing pressure.

It should also be noted that the Phillips well initially went on stream at approximately 1500 Mcf per day. We have no record of what its flowing tubing pressure was.

- Q Mr. Yates, do you arrive at some conclusion with respect to this pressure data?
- A. Yes. When we take into consideration geologic correlation that has been presented at this hearing today, the similarity in the type rocks, as reported in sample reports, we feel that there is very little doubt at this point that the two wells are completed in the same reservoir, and that it is very likely that they are in communication with -- one with another. The important thing, we think, relative to this hearing is that the original bottom hole pressure on the Adobe well has been reduced by production of the Phillips well, which is approximately one mile away. This reduction in pressure we believe to be a minimum 390 pounds per square inch and as much as over a -- a figure over 1200 pounds per square inch.

This indicates that the production from the Phillips well is draining effectively a distance of at least

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5,280 feet.

For this reason we are convinced 320-acre spacing, which is the standard gas well spacing to the depth and formation should be applied to this reservoir.

- Q Do you believe that 320-acre spacing for this reservoir will protect the correlative rights and prevent waste?
 - A. Yes.
- Now, Mr. Yates, the application of your company is for alternative relief, one of which requests that the whole pool be spaced on 320-acre spacing, and the other is that the 160-acre spacing be continued for the original well located in the southwest quarter of Section 17.

 Would you discuss for the Examiner the possible problem encountered if the whole -- the original pool were changed to 320-acre spacing?
- We recognize the difficulty that attempting to change the spacing on the pool, existing pool, from 160 acres to 320 acres puts the -- difficulty that arises for the Commission in trying to protect correlative rights with respect to the existing, the already existing and producing well.

We feel very positive that it is necessary to go to 320-acre spacing for the remaining wells if at all

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possible in this particular reservoir for the reasons that we have stated.

We do however recognize that it may be necessary for the Commission to maintain a nonstandard location at the very least for the Phillips well to maintain its present 160-acre spacing, and possibly permit in the northwest quarter of Section 17 a nonstandard well to be drilled in order for those parties to protect their correlative rights. Yates would have no objection to a nonstandard well being drilled in that particular northwest quarter in Section 17.

We would attempt and would encourage the operator of the existing unit to unitize the east half of Section 17 to drill a well on 320-acre spacing, if that were so approved by the Commission.

MR. LOSEE: I have no further questions of the witness.

CROSS EXAMINATION

BY MR. STAMETS:

- Mr. Yates, have you had any direct contact with Phillips Petroleum on this application?
 - No, sir.
- They have not indicated any desire one way or the other, what they'd like to have, whether they'd like to have your direct application or your alternative approved?

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No, sir, we -- I have not talked with them.

It doesn't appear as though Phillips is represented here today.

MR. STAMETS: Any other questions of this witness?

He may be excused.

MR. LOSEE: Mr. Examiner, I'd like to explain that a little bit. From Yates Petroleum's standpoint we have no preference as to either request for relief, either to shrink it to the 160 or put the original pool on 320's. I do envision a problem on a well that's been drilled and put on production in 1964 with 4-billion cubic feet having been produced from it, to put it on 320. Whether Southern Union that happens to have the northwest quarter in that section gets hauled into the unit and how they adjust cost among themselves, and as a result I think it would behoove the Commission to really consider our alternative relief.

That's the only statement I have.

MR. STAMETS: Would it appear within the call of the hearing to grant the relief administratively upon a an application by the original operator, Phillips?

MR. LOSEE: To do what, now?

MR. STAMETS: Provide Phillips Petroleum the opportunity to decide whether they wanted 320 or 160 and upon their application we could limit the old pool rules

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to the 160 that they're on or have the new pool rules ef-

MR. LOSEE: I don't, frankly, I don't think we've fective. said anything about administrative, and I can't envision Phillips wanting to get in an argument with Southern Union as to reimbursement of costs of a well that's been on since '64 and produced 4-billion cubic feet of gas.

From Yates' standpoint if you approve the alternative relief and put it on the 160, the original pool, obviously there has to be a nonstandard unit and we will not object if Southern Union or anyone else proposes to drill a well up in the northwest quarter. We can't speak for Adobe, of course. Maybe Mr. Strand, who's here with Harvey Yates Company, can speak for them.

But I just think from a practical standpoint that that would cause less problems with everybody.

MR. STAMETS: Okay.

MR. LOSEE: For what that may be worth.

MR. STAMETS: Is there anything further in this

case?

MR. STRAND: Mr. Examiner, on behalf of Harvey E. Yates Company, we would support either alternative. As Mr. Harley stated, we own a substantial interest in the unit area and fully concur with the application and could go with either alternative on it.

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MR. STAMETS: Anything further in this case?

MR. LOSEE: I have nothing further.

MR. STAMETS: The case will be taken under

advisement. Do you have an extra set of the exhibits?

MR. LOSEE: Yes.

(Hearing concluded.)

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REPORTER'S CERTIFICATE

I, SALLY WALTON BOYD, a Court Reporter, DO HEREBY CERTIFY that the foregoing and attached Transcript of Hearing before the Oil Conservation Division 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, knowledge, and skill, from my notes taken at the time of the hearing.

Sally Walton Boyd, C.S.R.

the Examiner hearing of Case No. 6295

Wew Mexico Oil Conservation Commission

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CASE 6287: (Continued from August 2, 1978, Examiner Hearing)

Application of Jack A. Cole for an unorthodox gas well location, Sandoval County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of his Apache Plats Well No. 11, located 1712 feet from the South line and 1223 feet from the East line of Section 28, Township 23 North, Range 4 West, Ballard-Pictured Cliffs Pool, Sandoval County, New Mexico.

CASE 6295:

Application of Yates Petroleum Corporation for special pool rules, Lea County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the Austin-Mississippian Gas Pool, Lea County, New Mexico, to provide for 320-acre spacing rather than 160 acres. In the absence of objection, this pool will be placed on the standard 320-acre spacing for deep gas pools.

In the alternative, the applicant seeks to limit the 160-acre spacing rules of said Austin-Mississippian Gas Pool to the present horizontal limits of the pool.

CASE 6296:

Application of Texaco Inc. for an unorthodox location and simultaneous dedication, Lea County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its A. H. Blinebry Fed. (NCT-4) Well No. 3 located 700 feet from the South line and 2100 feet from the East line of Section 31, Township 22 South, Range 38 East, Tubb Gas Pool, Lea County, New Mexico, the S/2 S/2 of said Section 31 to be simultaneously dedicated to the aforesaid well and to applicant's A. H. Blinebry Fed. (NCT-4) Well No. 1 located in Unit P of said Section 31.

CASE 62971

In the matter of the hearing called by the Oil Conservation Division on its own motion for an order creating, contracting, and extending certain pools in Chaves, Eddy, and Lea Counties, New Mexico:

(a) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Atoka production and designated as the Indian Flats-Atoka Gas Pool. The discovery well is Perry R. Bass Big Eddy Unit Well No. 41 located in Unit J of Section 35, Township 21 South, Range 28 East, NMPM. Said pool would comprise:

TOWNSHIP 21 SOUTH, RANGE 28 EAST, NMPM Section 35: E/2

(b) CREATE a new pool in Chaves County, New Mexico, classified as an oil pool for San Andres production and designated as the South Lonesome-San Andres Pool. The discovery well is Flag-Redfern Oil Company Wilson Well No. 1 located in Unit A of Section 31, Township 8 South, Range 32 East, NMPM. Said pool would comprise:

TOWNSHIP 8 SOUTH, RANGE 32 EAST, NMPM Section 31: NE/4

(c) CREATE a new pool in Chaves County, New Mexico, classified as a gas pool for Morrow production and designated as the Many Gates-Morrow Gas Pool. The discovery well is Amoco Production Company State DQ Well No. 1 located in Unit C of Section 32, Township 9 South, Range 30 East, NMPM. Said pool would comprise:

TOWNSHIP 9 SOUTH, RANGE 30 EAST, NAPM Section 32: N/2

(d) CREATE a new pool in Eddy County, New Mexico, classified as a gas pool for Wolfcamp production and designated as the Millman-Wolfcamp Gas Pool. The discovery well is Depco, Inc. DHY State B Well No. 1 located in Unit L of Section 11, Township 19 South, Range 28 East, NMPM. Said pool would comprise:

TOWNSHIP 19 SOUTH, RANGE 28 EAST, NMPM Section 11: W/2

(e) CREATE a new pool in Lea County, New Mexico, classified as a gas pool for Morrow production and designated as the South Shoe Bar-Morrow Gas Pool. The discovery well is HNG Oil Company Shoe Bar Ranch "3" Well No. 1 located in Unit C of Section 3, Township 17 South, Range 35 East, NMPM. Said pool would comprise:

TOWNSHIP 17 SOUTH, RANGE 35 EAST, NMPM Section 3: N/2

(f) CREATE a new pool in Lea County, New Mexico, classified as an oil pool for Strawn production and designated as the Wilson-Strawn Pool. The discovery well is Dorchester Exploration, Inc. Wilson State Com Well No. 1 located in Unit I of Section 13, Township 21 South, Range 34 East, NMPM. Said pool would comprise:

TOWNSHIP 21 SOUTH, RANGE 34 EAST, NMPM . Section 13: SE/4

LAW OFFICES

LOSEE & CARSON, P.A.

P. O. DRAWER 239 ARTESIA, NEW MEXICO 88210 AREA CODE 505 746-3508

A.J.LOSEE JOEL M. CARSON CHAD DICKERSON

4 August 1978

Mr. Joe D. Ramey, Director New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Dear Mr. Ramey:

Enclosed herewith, please find three copies of Application of Yates Petroleum Corporation, et al, for special pool rules for the Austin-Mississippian Gas Pool, Lea County, New Mexico.

We ask that this case be set for hearing before an examiner and that we be furnished with a docket of said hearing.

yours truly,

LOSEE, CARSON & DIERERSON, P.A.

Joel M

JMC:bjm Enclosures

cc w/enclosure: Yates Petroleum Corporation

BEFORE THE OIL CONSERVATION DIVISION

OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF YATES PETROLEUM CORPORATION, ET AL, FOR SPECIAL POOL RULES FOR THE AUSTIN-MISSISSIPPIAN GAS POOL, LEA COUNTY, NEW MEXICO

CASE NO. 6295

APPLICATION

COMPANY, MYCO INDUSTRIES, INC., and JOHN A. YATES ("Yates, et al"), by their attorneys, and in support hereof respectfully state:

- 1. The Austin-Mississippian Gas Pool was created and defined prior to June 1, 1964 with 160 acre spacing for the Mississippian formation underlying the SW/4 of Section 17, Township 14 South, Range 36 East, N.M.P.M., Lea County, New Mexico.
- 2. Adobe Oil & Gas Corporation in the year 1978 completed its State No. 16 Well in the SW/4 of Section 16, same township and range, within one mile of the outer limits of the Austin-Mississippian Gas Pool.
- 3. Adobe Oil & Gas Corporation has filed a notice of intention to drill its Hannah No. 1 Well in the NE/4 SE/4 of said Section 17.
- 4. Yates, et al, are the owners of 36.8% interest in the State No. 16 Well and in the spacing unit comprising the E/2 of Section 17.
- 5. Yates, et al, seek the promulgation of rules, including a provision for 320 acre spacing, for the Austin-Mississippian Gas Pool in Lea County, New Mexico, inasmuch as

the pool was excluded from the provision of R-2707 because it was created and defined prior to the cut-off date of June 1, 1964.

- In the alternative, Yates, et al, seek a limitation on the 160 acre spacing rule applicable to the Austin-Mississippian Gas Pool so that it will only be effective as to the SW/4 of Section 17.
 - A well in the Mississippian formation will efficiently and economically drain 320 acres, and the approval of this application will protect correlative rights and prevent waste.

WHEREFORE, applicant prays:

- That this application be set for hearing before an examiner and that notice of said hearing be given as required
- That upon hearing the Division enter its order by law. promulgating a rule for 320 acre spacing for the Austin-Mississippian Gas Pool or, in the alternative, limiting the 160 acre spacing in said pool to the SW/4 of said Section 17.
 - And for such other and further relief as may seem proper.

YATES PETROLEUM CORPORATION, ET AL

Joel M. Carson

O. Drawer 239 Artesia, New Mexico 88210

Attorneys for Applicants

BEFORE THE OIL CONSERVATION DIVISION

OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF YATES PETROLEUM CORPORATION, ET AL, FOR SPECIAL POOL RULES FOR THE AUSTINMISSISSIPPIAN GAS POOL, LEA COUNTY, NEW MEXICO

CASE NO. 6295

APPLICATION

COME NOW YATES PETROLEUM CORPORATION, YATES DRILLING COMPANY, MYCO INDUSTRIES, INC., and JOHN A. YATES ("Yates, et al"), by their attorneys, and in support hereof respectfully state:

- 1. The Austin-Mississippian Gas Pool was created and defined prior to June 1, 1964 with 160 acre spacing for the Mississippian formation underlying the SW/4 of Section 17, Township 14 South, Range 36 East, N.M.P.M., Lea County, New Mexico.
- 2. Adobe Oil & Gas Corporation in the year 1978 completed its State No. 16 Well in the SW/4 of Section 16, same township and range, within one mile of the outer limits of the Austin-Mississippian Gas Pool.
- 3. Adobe 0il & Gas Corporation has filed a notice of intention to drill its Hannah No. 1 Well in the NE/4 SE/4 of said Section 17.
- 4. Yates, et al, are the owners of 36.8% interest in the State No. 16 Well and in the spacing unit comprising the E/2 of Section 17.
- 5. Yates, et al, seek the promulgation of rules, including a provision for 320 acre spacing, for the Austin-Mississippian Gas Pool in Lea County, New Mexico, inasmuch as

the pool was excluded from the provision of R-2707 because it was created and defined prior to the cut-off date of June 1, 1964.

- 6. In the alternative, Yates, et al, seek a limitation on the 160 acre spacing rule applicable to the Austin-Mississippian Gas Pool so that it will only be effective as to the SW/4 of Section 17.
- 7. A well in the Mississippian formation will efficiently and economically drain 320 acres, and the approval of this application will protect correlative rights and prevent waste.

WHEREFORE, applicant prays:

- A. That this application be set for hearing before an examiner and that notice of said hearing be given as required by law.
- B. That upon hearing the Division enter its order promulgating a rule for 320 acre spacing for the Austin-Mississippian Gas Pool or, in the alternative, limiting the 160 acre spacing in said pool to the SW/4 of said Section 17.
- C. And for such other and further relief as may seem proper.

YATES PETROLEUM CORPORATION, ET AL

By:

Joel M. Carson

Artesia, New Mexico 88210

Attorneys for Applicants

BEFORE THE OIL CONSERVATION DIVISION

OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF YATES PETROLEUM CORPORATION, ET AL, FOR SPECIAL POOL RULES FOR THE AUSTINMISSISSIPPIAN GAS POOL, LEA COUNTY, NEW MEXICO

CASE NO. 6295

APPLICATION

COME NOW YATES PETROLEUM CORPORATION, YATES DRILLING COMPANY, MYCO INDUSTRIES, INC., and JOHN A. YATES ("Yates, et al"), by their attorneys, and in support hereof respectfully state:

- 1. The Austin-Mississippian Gas Pool was created and defined prior to June 1, 1964 with 160 acre spacing for the Mississippian formation underlying the SW/4 of Section 17, Township 14 South, Range 36 East, N.M.P.M., Lea County, New Mexico.
- 2. Adobe Oil & Gas Corporation in the year 1978 completed its State No. 16 Well in the SW/4 of Section 16, same township and range, within one mile of the outer limits of the Austan-Mississippian Gas Pool.
- 3. Adobe 0il & Gas Corporation has filed a notice of intention to drill its Hannah No. 1 Well in the NE/4 SE/4 of said Section 17.
- 4. Yates, et al, are the owners of 36.8% interest in the State No. 16 Well and in the spacing unit comprising the E/2 of Section 17.
- 5. Yates, et al, seek the promulgation of rules, including a provision for 320 acre spacing, for the Austin-Mississippian Gas Pool in Lea County, New Mexico, inasmuch as

the pool was excluded from the provision of R-2707 because it was created and defined prior to the cut-off date of June 1, 1964.

- in the alternative, Yates, et al, seek a limitation on the 160 acre spacing rule applicable to the Austin-Mississippian Gas Pool so that it will only be effective as to the SW/4 of Section 17.
- 7. A well in the Mississippian formation will efficiently and economically drain 320 acres, and the approval of this application will protect correlative rights and prevent waste.

WEEREFORE, applicant prays:

- A. That this application be set for hearing before an examiner and that notice of said hearing be given as required by law.
- B. That upon hearing the Division enter its order promulgating a rule for 320 acre spacing for the Austin-Mississippian Gas Pool or, in the alternative, limiting the 160 acre spacing in said pool to the SW/4 of said Section 17.
- C. And for such other and further relief as may seem proper.

YATES PETROLEUM CORPORATION, ET AL

By

Joel A. Car

Artesia, New Mexico 8

Attorneys for Applicants

From Jerry Lossee De July 27, 1978
Application of Vates Petroleum
Corporation

Application of Texas Oil and Cas Company for special pool rules or a spacing exception, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks the promulgation of special pool rules for the Shugart-remsylvanium Gas Tool, Eddy County, New Mexico, to provide for 320-acre spacing rather than 160 acres. In the absence of objection, this pool will be placed on the standard 320-acre spacing for deep 3 a s Pools

(Austin-Mississippian Gas Pool, Lea

In the afternative, The applicant seeks to limit the 160-acre spacing rules to the present trovitorated limits of said Present Mississippian Gas Pool.

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manakan sebagai dan kembangan dan kembangan bermanan dan kembangan sebagai sebagai sebagai sebagai sebagai seb Banggaran sebagai seba Banggaran sebagai seba IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

Order No. 6295

Order No. R-5,793

Replication of Yates Petroleum Corporation

For Special Pool Rules, Lea County, Now Mexico

H

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on Hug. 16

19 18, at Santa Fe, New Mexico, before Examiner Stanuts

NOW, on this _____ day of ______, 19 75 ___, the

Division Director, having considered the testimony, the record,

and the recommendations of the Examiner, and being fully advised

in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) that the applicant, Whates Petroleum Company.

Applicant, in the above styled cause; seeks the promulgation of special pool rules for the Austin-Mississippian Gas Pool, Lea County, New Mexico, to provide for 320-acre spacing rather than 160 acres.

(3) That

In the alternative, the applicant seeks to limit the 160-acre spacing rules of said Austin-Mississippian Gas Pool to the present horizontal limits of the pool.

- (4) That said Chugart-Pennsylvanian Gas Pool was created and designated by the Commission by Order No. R-1129, effective June 1, 1958. February 20, 1958
- (5) That by Commission Order No. R-2707, dated May 25, 1964, Rule 104 of the Commission Rules and Regulations was amended to provide that all gas pools of Pennsylvanian age or older in Southeast New Mexico which were created and defined June 1, 1964, or later shall have 320-acre spacing and proration units, inasmuch as it was found that in Southeast New Mexico,..."a gas well completed in the Pennsylvanian formation or a deeper formation will efficiently and economically drain and develop a 320-acre tract."

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(6) That the applicant in the instant case seeks the promulgation of rules including a provision for 320-acre spacing for the Shugart-Pennsylvanian Gas Pool in Eddy County, New Mexico, inasmuch as that pool was excluded from the provisions of Order No. R-2707, because it was created and defined prior to the cut-off date of June 1, 1964.

(7) That one well in the North-Burton-Pennsylvanian Gas Pool in Eddy County, New Mexico, will efficiently and economically drain and develop 320 acres, and the inclusion of said pool under the 320-acre provisions of Rule 104 for pools of Pennsylvanian age or older will not cause waste nor violate correlative rights, and should be approved.

(8) That to profer therights of interest ower owners in the original well within soid within soid Plus tin-Mississipian Gas Pool the area deficiented southern soid and graception to the uself for the grant for the pool, and a subject of the pool, and a subject of the pool and a subject of the pool of the pool and a won- standard 160-active as well spacing and prosection whit for said well bland be approved.

(9) That approval of this application for special pool vales subject to the provisions of Finding (8) above will not cause waste nor impair correlative rights and should be approved.

IT IS THEREFORE ORDERED:

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(1) That effective August 1, 1978, each well completed or recompleted in the North Purton-Pennsylvanian Gas Pool or in the Pennsylvanian formation within one mile thereof shall be subject to the provisions of Rule 104 of the Commission Rules and Regulations notwithstanding the fact said pool was created and defined prior to June 1, 1964.

Provided However: That a 160-acre um-standard gas spacing and provation wink comprising the safe of Section 17, Township 14 South, Range 36 East, NMPM, Lea Camity, her heepico, in hereby approved and dedicated to the Phillips Petrolem Company Custion Combine No. 1, Located in Unit

IT IS FURTHER ORDERED:

Hustin Mississippin

or completed in the North Burton-Pennsylvanian Gas Pool or in the Pennsylvanian formation within one mile thereof are hereby approved; that the operator of any well having an unorthodox location shall notify the District Office of the District of the well by Newsber 1, 1978.

That/pursuant to Paragraph A. of Section 65-3-14.5,
NMSA 1953, contained in Chapter 271, Laws of 1969, existing wells
in the North Burton-Pennsylvanian Gas Pool shall have dedicated
thereto 320 acres in accordance with Rule 104 of the Commission
Rules and Regulations; or pursuant to Paragraph C. of said
Section 65-3-14.5, existing wells may have non-standard units
dedicated thereto.

Failure to file new Forms C-102 with the Commission dedicating 320 acres to a well or to obtain a non-standard unit approved by the Commission within 60 days from the effective date of this order shall subject the well to cancellation of allowable.

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Mississippian.

AND THE PROPERTY OF THE PROPER 12 companies awarded contract/so west Bus Machines (7) That recent additional development in said Hustin - Missipsipian Gis Tool demonstrates ona 320tacre (8)