CASE 5676: YATES PET. CORP. FOR AN UNORTHODOX GAS WELL LOCATION, EDDY COUNTY, NEW MEXICO

# CASE NO.

5676

APPlication, Transcripts, Small Exhibits,

ETC.

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BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico May 12, 1976

#### EXAMINER HEARING

IN THE MATTER OF:

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Application of Yates Petroleum Corpora- ) tion for an unorthodox gas well location) Eddy County, New Mexico.

CASE 5676

BEFORE: Daniel S. Nutter, Examiner

#### TRANSCRIPT OF HEARING

#### APPEARANCES

For the New Mexico Oil Conservation Commission: William F. Carr, Esq. Legal Counsel for the Commission

State Land Office Building

Santa Fe, New Mexico

For the Applicant:

Joel M. Carson, Esq. LOSEE & CARSON, P.A. Attorneys at Law

300 American Home Bldg.

Artesia, New Mexico

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MR. NUTTER: Now, we will proceed with Case Number 5676, Mr. Carson.

MR. CARR: Case 5676, application of Yates Petroleum Corporation for an unorthodox gas well location, Eddy Ccunty, New Mexico.

MR. CARSON: Mr. Examiner, my name is Joel Carson with the firm of Losee and Carson, Artesia and I have one witness to be sworn and that is Mr. Ray Beck.

(THEREUPON, the witness was duly sworn.)

#### RAY BECK

called as a witness, having been first duly sworn, was examined and testified as follows:

#### DIRECT EXAMINATION

#### BY MR. CARSON:

- Q. Would you state your name, please?
- A. Ray Beck.
- Q. And by whom are you employed?
- A. Yates Petroleum.
- Q. In what capacity?
- A. Geologist.
- Q. Have you previously testified before this Commission
- A. I have.
- Q And have your qualifications been acceptable to the

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Commission?

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A. They have.

MR. CARSON: Are the witness's qualifications acceptable?

MR. NUTTER: Yes, they are. Please proceed.

- Q. (Mr. Carson continuing.) Mr. Beck, would you tell the Commission or the Hearing Officer the purpose of this application, Number 5676?
- A. Yates Petroleum Corporation seeks approval of the unorthodox gas well location of its Dakota No. 1 Federal GC to be drilled six, sixty from the south and east lines of Section 32, Township 17 South, Range 25 East, Eddy County, New Mexico. The east half of the section will be dedicated to the well.
- Q Mr. Beck, I hand you what has been marked as Applicant's Exhibit Number One and ask if you would explain what that exhibit purports to show?
- A. Exhibit Number One is a land plat showing the proposed location and its relationship to the surrounding leasehold situation.
- Q All right, and I hand you Applicant's Exhibit Number Two and ask if that was prepared by you or under your supervision?
  - A. It was prepared by me.
  - Q Could you explain to the Hearing Officer what that

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map shows?

A. Exhibit Number Two is a map showing the structure, porosity and facies relationships of the Permo-Penn Antelope sink zone in the area of the proposed location. However, the well will penetrate the entire Pennsylvanian section and possibly be completed in the Lower Penn sands and the main reason for the exception location is to encounter a quality interval in the gas productive Permo-Penn Antelope Sink zone carbonates trending southwest from Artesia.

The Permo-Penn interval is referred to as the Antelope Sink zone because it is stratigraphically equivalent to the overall interval which produces in the Tom Brown Antelope Sink well in the southwest-northeast of 18 and 19 South, 24 East, Eddy County.

Exhibit Number Two shows the Antelope Sink zone porosity feet in solid contours and the structure is dotted contours. The map also shows the three main facies, that is the tight shelf facies to the northwest and a narrow band of more porous productive basin marginal bioherms and non-productive basinal fill material out in front.

The wells colored in red are completed in the Antelope Sink zone, the wells enclosed in squares are potentially completeable in the Antelope Sink zone.

The overall gas productive trend runs northeastsouthwest with the quality of the porosity varying from well-

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The State CY has been completed in the Antelope Sink zone for a measured deliverability of six hundred and nineteen thousand cubic feet per day. According to the map, therefore, the exception location should encounter the improved Antelope Sink zone porosity relative to the State CY Well which lies in the same local area of porosity.

- 0. Mr. Beck, I hand you Applicant's Exhibit Three and ask if that exhibit was prepared by you or under your supervision?
  - A. Yes, it was prepared by me.
- Q. Would you explain to the Hearing Office what that exhibit purports to show?
- A. Exhibit Number Three is a cross section AA Prime running northwest to southeast more or less normal to the facies trends shown. The Antelope Sink zone top interval indicated on the cross section is merely to give a third dimension to the previous exhibit.
- Mr. Beck, in your opinion will the granting of this
   application prevent the economic loss caused by the drilling
   of unnecessary wells, avoid the augmentation of the risk

arising from the drilling of an excessive number of wells and otherwise prevent waste and protect correlative rights?

A. I believe it will.

MR. CARSON: I would like to move the introduction of these exhibits, Mr. Hearing Officer.

MR. NUTTER: Yates' Exhibits One through Three will be admitted into evidence.

(THEREUPON, Yates' Exhibits One through
Three were admitted into evidence.)
MR. CARSON: We have no further questions.

#### CROSS EXAMINATION

BY MR. NUTTER:

Q. Mr. Beck, on your Exhibit Number Three you have this one line which cuts through the Antelope Sink zone labeled on your exhibit and it is identified as NMOCC 10, what would be the explanation of that, please?

A. The New Mexico Oil Conservation Commission, the study of industry geologists to pick some tops which could be used over the southeastern part of the State, especially in the Pennsylvanian and it is the pick that they came up with for the top of the Penn. We believe that the Antelope Sink zone started off in the Pennsylvanian-Cisco and just kept right on growing up into the Wolfcamp so that is why we used the term Antelope Sink zone because it is one, more or less

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- Q. Actually then, according to this exhibit, this Antelope Sink zone would be in lower Permian and Upper Pennslyvanian, is that right?
  - A. That's true.
- Q. And the advertisement for this case was for a well to test the Morrow formation which would be far below here?
- A. Well, all it says really is that it is going to test the Morrow formation, that is true, but the main reason for the exception location was for the Permo-Penn because the Morrow, even though we are going to go down and try to see what we can find there, is not all that prospective.
  - Q You will drill deeper than this Antelope Sink zone?
  - A. Oh, yes, sir.
  - Q. You will go to the Morrow formation?
  - A. Yes, through the entire Pennsylvanian.
- Q. This well would actually be a Lower Wolfcamp or Permo-Penn completion if it were completed here in this so-called Antelope Sink?
  - A. Yes, sir.

MR. NUTTER: Okay. Are there any further questions of this witness? He may be excused.

(THEREUPON, the witness was excused.)

MR. NUTTER: Is there anything further, Mr. Carson?

MR. CARSON: Not in connection with this case.

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#### REPORTER'S CERTIFICATE

I, SIDNEY F. MORRISH, a Certified Shorthand Reporter, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me, and the same is a true and correct record of the said proceedings to the best of my knowledge, skill and ability.

Sidney F./Morrish,

I the hereby certify that the foregoing is a caplete record of the proceedings in the Transiner hearing of Case No. 56.74

Account Examiner Mexico Oil Conservation Commission

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## BEFORE THE NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico May 12, 1976

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Conservation Commission: Legal Counsel for the Commission
State Land Office Building
Santa Fe, New Mexico

For the Applicant: Joel M. Carson, Esq.
LOSEE & CARSON, P.A.

LOSEE & CARSON, P.A. Attorneys at Law 300 American Home Bldg. Artesia, New Mexico

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RAY BECK Direct Examination by Mr. Carson Cross Examination by Mr. Nutter EXHIBIT INDEX Yates' Exhibit No. One, Land Plat Yates' Exhibit No. Two, Map Yates' Exhibit No. Three, Cross Section 

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#### REPORTER'S CERTIFICATE

I, SIDNEY F. MORRISH, a Certified Shorthand Reporter, do hereby certify that the foregoing and attached Transcript of Hearing before the New Mexico Oil Conservation Commission was reported by me, and the same is a true and correct record of the said proceedings to the best of my knowledge, skill and ability.

Sidney F. Morrish, C.S.R.

Tew Mexico Oil Conservation Commission



DIRECTOR

JOE D. RAMEY

Aztec OCC

Other

### **OIL CONSERVATION COMMISSION**

STATE OF NEW MEXICO P. O. BOX 2088 - SANTA FE

87501

PHIL R. LUCERO May 20, 1976



STATE GEOLOGIST EMERY C. ARNOLD

5676 Re: CASE NO. Mr. Joel Carson R-5216 ORDER NO. Losee & Carson Attorneys at Law P. O. Drawer 239 Applicant: Artesia, New Mexico 88210 Yates Petroleum Corporation Dear Sir: Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case. Yours very truly, JOE D. RAMEY /Director JDR/fd Copy of order also sent to: Hobbs OCC Artesia OCC

## BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE NO. 5676 Order No. R-5216

APPLICATION OF YATES PETROLEUM CORPORATION FOR AN UNORTHODOX GAS WELL LOCATION, EDDY COUNTY, NEW MEXICO.

#### ORDER OF THE COMMISSION

#### BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on May 12, 1976, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 18th day of May, 1976, the Commission, a quorum being present, 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 Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Yates Petroleum Corporation, seeks approval of an unorthodox gas well location for its Federal "GC" Com Well No. 1 at a point 660 feet from the South line and 660 feet from the East line of Section 32, Township 17 South, Range 25 East, NMPM, to test the Wolfcamp and Pennsylvanian formations, Eddy County, New Mexico.
- (3) That the E/2 of said Section 32 is to be dedicated to the well.
- (4) That a well at said unorthodox location will better enable applicant to produce the gas underlying the provation unit.
- (5) That no offset operator objected to the proposed unorthodox location.
- (6) That approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the gas in the subject pool, will prevent the economic

-2-Case No. 5676 Order No. R-5216

loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights.

#### IT IS THEREFORE ORDERED:

- (1) That an unorthodox gas well location for the Wolfcamp and Pennsylvanian formations is hereby approved for the Yates Petroleum Corporation Federal "GC" Com Well No. 1 to be located at a point 660 feet from the South line and 660 feet from the East line of Section 32, Township 17 South, Range 25 East, NMPM, Eddy County, New Mexico.
- (2) That the E/2 of said Section 32 shall be dedicated to the above-described well.
- (3) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

PHIL R. LUCERO, Chairman

EMERY C. ARNOLD, Member

JOE D. RAMEY, Member & Secretary

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LAW OFFICES

LOSEE & CARSON, P.A.

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

22 April 1976

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

Dear Mr. Ramey:

JOEL M. CARSON

CHAD DICKERSON

Enclosed, please find original and two copies of application of Yates Petroleum Corporation for an unorthodox gas well location in Eddy County, New Mexico.

We understand this matter will be heard at the May 12, 1976, examiner hearing.

Very truly yours,

LOSEE & CARSON, P.A.

A. J. Losee

AJL:jw Enclosures

cc: Yates Petroleum Corporation

#### BEFORE THE OIL CONSERVATION COMMISSION

#### STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF:
YATES PETROLEUM CORPORATION FOR AN:
UNORTHODOX GAS WELL LOCATION IN EDDY:
CASE
COUNTY, NEW MEXICO:

CASE NO.

#### APPLICATION

COMES YATES PETROLEUM CORPORATION, by its attorneys, and in support hereof respectfully states:

1. That applicant is the operator of the Pennsylvanian system underlying:

Township 17 South, Range 25 East, N.M.P.M.

Section 32: **E**/2

- 2. Applicant proposes to drill its Federal "GC"

  Com. Well in the **E**/2 at a location 660 feet from the South and

  East lines of said Section 32, and to dedicate the **E**/2 of said

  Section 32 to the well.
- 3. Applicant seeks an exception to the well location requirements of Rule 104-C of the Oil Conservation Commission to permit the drilling of the well at the above mentioned unorthodox location to a depth sufficient to adequately test the Morrow formation of the Pennsylvanian system.
- 4. That a standard 320-acre proration unit comprising the \$\mathbb{E}/2\$ of said Section 32 should be dedicated to the Federal "GC" Com. Well.
- 5. That the approval of this application will afford applicant the opportunity to produce its just and equitable

share of gas, will prevent economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights.

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 Commission enter its order granting applicant permission to drill its Federal "GC" Com.

  Well at the above unorthodox location, and to dedicate the

  \$\mathbb{E}/2\$ of said Section 32 to said well, which is reasonably presumed to be productive of gas from the Morrow formation.
- C. And for such other relief as may be just in the premises.

YATES PETROLEUM CORPORATION

LOSEE & CARSON, P.A. P. O. Drawer 239

Artesia, New Mexico 88210

Attorneys for Applicant

#### BEFORE THE OIL CONSERVATION COMMISSION

#### STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF YATES PETROLEUM CORPORATION FOR AN UNORTHODOX GAS WELL LOCATION IN EDDY COUNTY, NEW MEXICO

- And Appropriate Control

#### APPLICATION

COMES YATES PETROLEUM CORPORATION, by its attorneys, and in support hereof respectfully states:

1. That applicant is the operator of the Pennsylvanian system underlying:

Township 17 South, Range 25 East, N.M.P.M.

Section 32: 8/2

- 2. Applicant proposes to drill its Federal "GC"

  Com. Well in the S/2 at a location 660 feet from the South and

  East lines of said Section 32, and to dedicate the S/2 of said

  Section 32 to the well.
- 3. Applicant seeks an exception to the well location requirements of Rule 104-C of the Oil Conservation Commission to permit the drilling of the well at the above mentioned unorthodox location to a depth sufficient to adequately test the Morrow formation of the Pennsylvanian system.
- 4. That a standard 320-acre proration unit comprising the S/2 of said Section 32 should be dedicated to the Federal "GC" Com. Well.
- 5. That the approval of this application will afford applicant the opportunity to produce its just and equitable

share of gas, will prevent economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights.

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 Commission enter its order granting applicant permission to drill its Federal "GC" Com. Well at the above unorthodox location, and to dedicate the S/2 of said Section 32 to said well, which is reasonably presumed to be productive of gas from the Morrow formation.
- C. And for such other relief as may be just in the premises.

YATES PETROLEUM CORPORATION

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LOSEE & CARSON, P.A. P. O. Drawer 239

Artesia, New Mexico 88210

Attorneys for Applicant

#### BEFORE THE OIL CONSERVATION COMMISSION

#### STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF YATES PETROLEUM CORPORATION FOR AN UNORTHODOX GAS WELL LOCATION IN EDDY COUNTY, NEW MEXICO

SE NO.

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Section 32: E/2

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  Com. Well in the E/2 at a location 660 feet from the South and

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- C. And for such other relief as may be just in the premises.

YATES PETROLEUM CORPORATION

λλ: ''''

LOSEE & CARSON, P.A. P. O. Drawer 239

Artesia, New Mexico 88210

Attorneys for Applicant

Dockets Nos. 15-76 and 16-76 are tentatively set for hearing on May 26 and June 9, 1976. Applications for hearing must be filed at least 22 days in advance of hearing date.

#### DOCKET: EXAMINER HEARING - WEDNESDAY - MAY 12, 1976

9 A.M. - OIL CONSERVATION COMMISSION CONFERENCE ROOM, STATE LAND OFFICE BUILDING - SANTA FE, NEW MEXICO

The following cases will be heard before Daniel S. Nutter, Examiner, or Richard L. Stamets, Alternate Examiner:

- ALLOWABLE: (1) Consideration of the allowable production of gas for June, 1976, from seventeen prorated pools in Lea, Eddy, Chaves, and Roosevelt Counties, New Mexico.
  - (2) Consideration of the allowable production of gas for June, 1976, from five prorated pools in San Juan, Pio Arriba, and Sandoval Counties, New Mexico.
- CASE 5676: Application of Yates Petroleum Corporation for an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Federal GC Com Well to be drilled 660 feet from the South and East lines of Section 32, Township 17 South, Range 25 East, Eddy County, New Mexico, to test the Morrow formation, the E/2 of said Section 32 to be dedicated to the well.
- CASE 5677: Application of Yates Petroleum Corporation for a unit agreement, Chaves County, New Mexico.

  Applicant, in the above-styled cause, seeks approval for the Dunken Nose Unit Area comprising 6393 acres, more or less, of State and Fee lands in Township 17 South, Ranges 18 and 19 East, Chaves County, New Mexico.
- CASE 5678: Application of Amoco Production Company for directional drilling, Lea County, New Mexico.

  Applicant, in the above-styled cause, seeks authority to deviate its State "E" Tract 18 Well

  No. 15, the surface location of which is 330 feet from the North line and 2310 feet from the

  West line of Section 1, Township 17 South, Range 36 East, Lovington-Abo Pool, Lea County, New

  Mexico, by directionally drilling said well and bottoming it in the Abo formation within 100

  feet of a point 600 feet from the North line and 2310 feet from the West line of said Section 1.
- CASE 5679: Application of Amoco Production Company for approval of an unorthodox gas well location, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks approval for the unorthodox location of its Empire South Deep Unit Well No. 9 to be drilled 660 feet from the North line and 990 feet from the West line of Section 5, Township 18 South, Range 29 East, South Empire-Morrow Cas Pool, Eddy County, New Mexico, the W/2 of said Section 5 to be dedicated to the well.
- Application of Amoco Production Company for compulsory pooling, Eddy County, New Mexico.
  Applicant, in the above-styled cause, seeks an order pooling all mineral interests in the Pennsylvanian formation underlying the W/2 of Section 21, Township 20 South, Range 25 East, Cemerary-Morrow Gas Pool, Eddy County, New Mexico, to be dedicated to David Fasken's Cemetery Federal Com Well No. 1 located in Unit L of said Section 21. Also to be considered will be the cost of drilling and completing said well and the allocation of the cost thereof, as well as actual operating costs and charges for supervision. Also to be considered will be the designation of David Fasken as operator of the well and a charge for the risk involved in drilling said well.
- CASE 5681: Application of A. H. Rains for salt water disposal, Eddy County, New Mexico. Applicant, in the above-styled cause, seeks authority to dispose of produced salt water into the Yates formation through the open-hole interval from approximately 550 feet to 561 feet in his Pure State Well No. 1, located in Unit J of Section 15, Township 21 South, Range 27 East, Magruder-Yates Pool, Eddy County, New Mexico.

#### CASE 5098: (Reopened)

In the matter of Case 5098 being reopened pursuant to the provisions of Order No. R-4682, which order established special rules for the Red Tank-Morrow Gas Pool, Lea County, New Mexico, including a provision for 640-acre spacing. All interested parties may appear and show cause why said pool should not be developed on 320-acre spacing.

#### CASE 5473: (Reopened)

In the matter of Case 5473 being reopened pursuant to the provisions of Order No. R-5029, which order established special rules and regulations for the West Knowles-Drinkard Pool, Lea County, New Mexico, including a provision for 80-acre spacing and proration units. All interested parties may appear and show cause why said pool should not be developed on 40-acre spacing units.

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## OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

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CASE NO 5676

Order No. R- 52/6

APPLICATION OF YATES PETROLEUM CORPORATION FOR AN UNORTHODOX GAS WELL LOCATION, EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

#### BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on May 12 , 19 76 at Santa Fe, New Mexico, before Examiner Daniel S. Nutter .

NOW, on this day of May, 1976, the Commission, a quorum being present, 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 Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Yates Petroleum Corporation, seeks

  For its Federal GC Com WellNo.

  approval of an unorthodox gas well location / 660 feet from the South

  line and 660 feet from the East line of Section 32, Township

  17 South, Range 25 East, NMPM, to test the

end Pormsylvanian formations,

Eddy County, New Mexico.

- (3) That the E/2 of said Section 32 is to be dedicated to the well.
- (4) That a well at said unorthodox location will better enable applicant to produce the gas underlying the proration unit.
- (5) That no offset operator objected to the proposed unorthodox location.

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Case	No.			
Order	· No.	12-	 	

(6) That approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the gas in the subject pool, will prevent the economic loss caused by the drilling of unnecessary wells, avoid the augmentation of risk arising from the drilling of an excessive number of wells, and will otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:	Wolfcamp book - formion and Pennsy
(1) That an unorthodox gas well the Yates Petroleum Corpora Fifts Fed formations is hereby approved for /axxx.	l location for the A Horney eral GC Com Well <b>No.1</b> Ak to be located at a point 660
feet from the South line and	feet from the <u>East</u>
line of Section 32, Township	17 South , Range <u>25 Fast</u>
NMPM,	Pool, Eddy County,
New Mexico.	
(2) That the $E/2$ of said 9	Section 32 shall be dedicated to
the above-described well.	

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

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.